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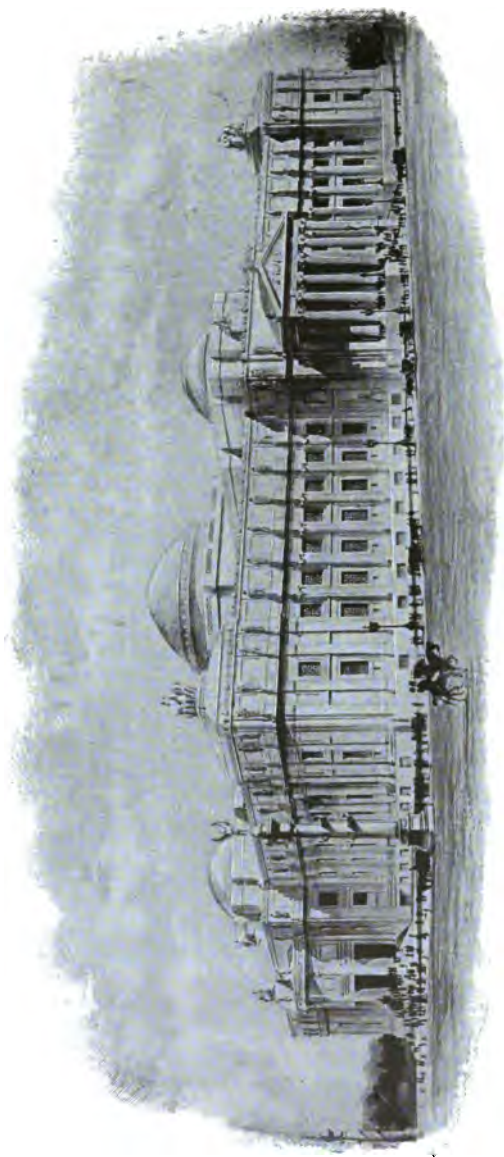
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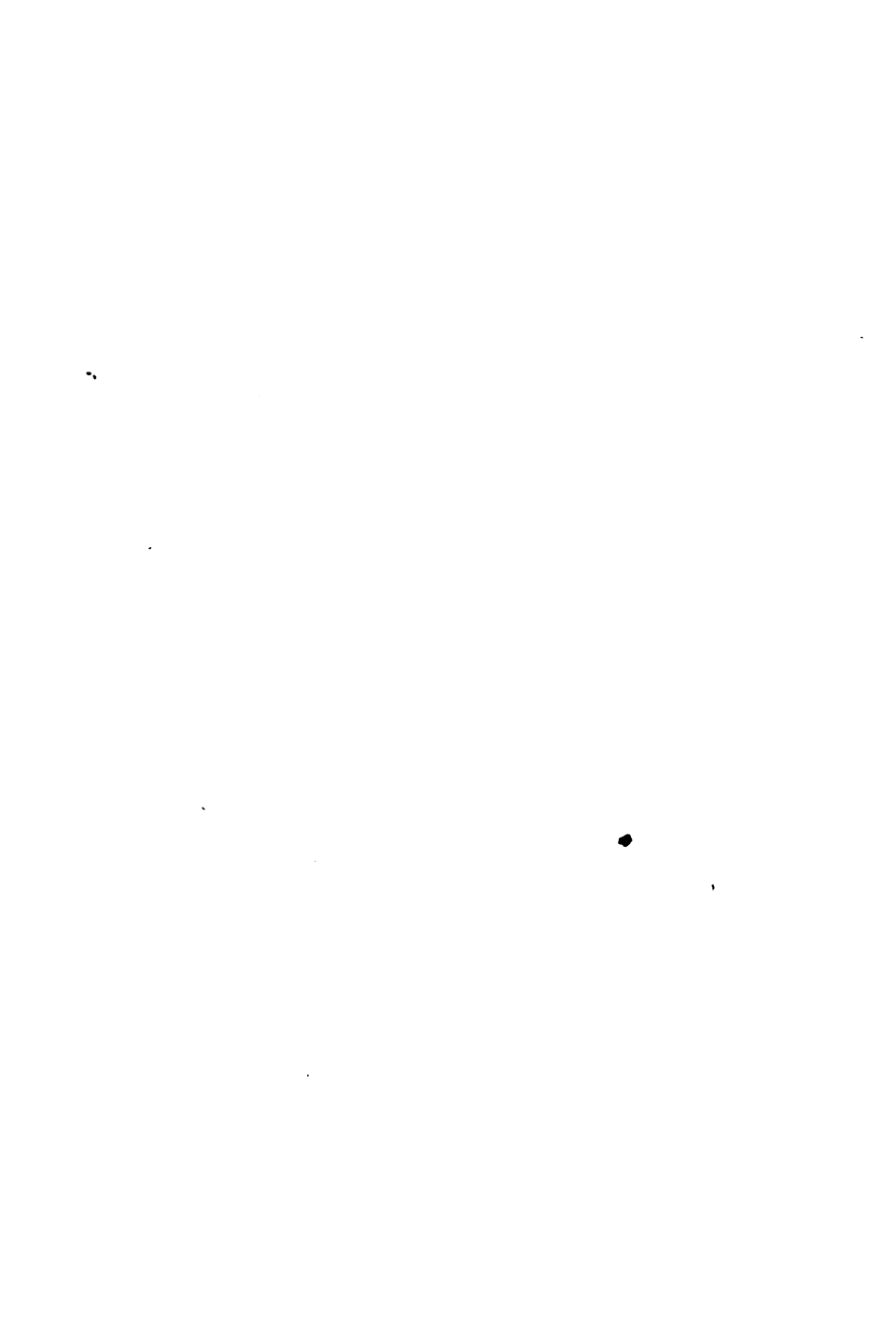


CONTENTS

	PAGE
BOARD OF TRUSTEES.....	9
COMMITTEES OF THE BOARD.....	10
PAST OFFICERS OF THE BOARD.....	12
COUNCIL OF ASSOCIATE MEMBERS.....	13
COMMITTEES OF ASSOCIATE MEMBERS.....	13
OFFICERS, CURATORS, AND ASSISTANTS.....	15
BENEFACTOR.	18
PAST HONORARY MEMBERS.....	19
HONORARY MEMBERS.....	20
PAST FELLOWS.	21
FELLOWS.	21
PATRONS.	22
PERMANENT MEMBERSHIPS.....	22
LIFE MEMBERSHIPS.....	25
CORRESPONDING OR NON-RESIDENT MEMBERS....	30
In Memoriam.....	38
A BRIEF HISTORY OF THE INSTITUTE.....	40
TABLES SHOWING GROWTH OF THE INSTITUTE...	67
CONSTITUTION AND BY-LAWS.....	70-82
GENERAL LECTURE COURSES.....	84
EXHIBITIONS BY DEPARTMENTS.....	85

WORK OF THE DEPARTMENTS:	PAGE
ARCHÆOLOGY.	86
ARCHITECTURE.	88
ASTRONOMY.	91
BOTANY.	94
CHEMISTRY.	97
DOMESTIC SCIENCE.....	99
ELECTRICITY.	101
ENGINEERING.	102
ENTOMOLOGY.	103
ETHNOLOGY.	108
FINE ARTS.....	109
THE TISSOT COLLECTION OF PICTURES.....	113
GEOGRAPHY.	117
GEOLOGY.	121
LAW.	123
MATHEMATICS.	126
MICROSCOPY.	127
THE MICROSCOPICAL EXHIBITION.....	129
MINERALOGY.	131
MUSIC.	134
PAINTING.	144
SCHOOL CALENDAR.	145
PEDAGOGY.	148
THE SCHOOL OF PEDAGOGY.....	154
PHILOLOGY.	160
PHILOSOPHY.	170

WORK OF THE DEPARTMENTS—(<i>Continued</i>).	PAGE
PHOTOGRAPHY.	172
THE PHOTOGRAPHIC EXHIBITION.....	176
PHYSICS.	180
POLITICAL SCIENCE.....	183
PSYCHOLOGY.	186
ZOÖLOGY.	188
SECTION ON CONCHOLOGY.....	191
SECTION ON ORNITHOLOGY.....	192
SECTION ON PHILATELY.....	193
THE DEPARTMENT LIBRARIES.....	194
MEMBERSHIP OF DEPARTMENTS.....	197
THE BIOLOGICAL LABORATORY.....	198
THE MUSEUM, ART DEPARTMENT.....	205
THE NATURAL SCIENCE DEPARTMENTS.....	209
THE CHILDREN'S MUSEUM.....	212
TREASURER'S ANNUAL REPORT.....	216



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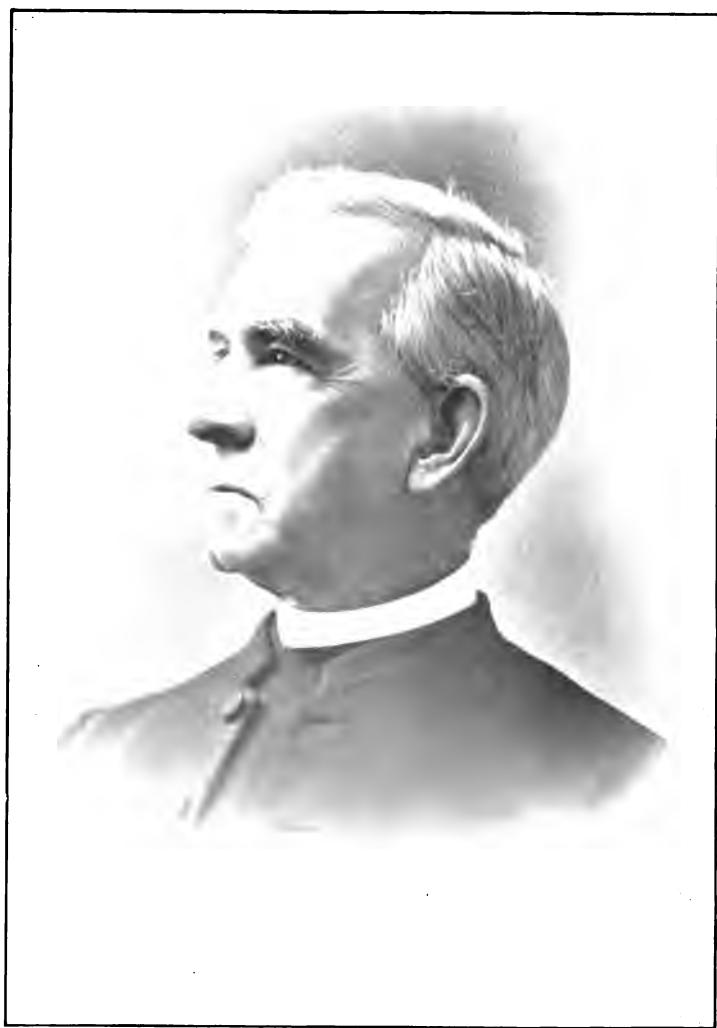
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EDWIN ARNOLD	-	-	-	-	-	-	March 24, 1904

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PARKE GODWIN	-	-	-	-	-	-	January 7, 1904
HENRY A. CLAPP	-	-	-	-	-	-	February 19, "

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ARTHUR W. PALMER	-	-	-	-	-	-	August 31, "
WILLIAM LAMB	-	-	-	-	-	-	October 3, "
ROBERT J. KIMBALL	-	-	-	-	-	-	October 3, "
H. CARRINGTON BOLTON, Ph.D.	-	-	-	-	-	-	November 19, "
WILLIAM H. HAZZARD	-	-	-	-	-	-	January 24, 1904
ROBBINS B. WOODWARD	-	-	-	-	-	-	May 23, "
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WALTER S. CARTER	-	-	-	-	-	-	June 3, "

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GEORGE L. A. MARTIN	-	-	-	-	-	-	July 7, "
DAVID F. HALSTED	-	-	-	-	-	-	July 11, "
ERNEST P. BROOK	-	-	-	-	-	-	July 12, "

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LOUIS SHAW	-	-	-	-	-	-	July 25, "
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CHARLES LEMBKE	-	-	-	-	-	-	September 1, "
JOHN BLISS	-	-	-	-	-	-	September 16, "
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CHARLES HENRY DUTCHER	-	-	-	-	-	-	October 15, "
Miss M. A. LATIMER	-	-	-	-	-	-	October 16, "
Miss ELEANOR SPENCER	-	-	-	-	-	-	November 12, "
Miss LOUISE BORCHERS	-	-	-	-	-	-	November 13, "
WILLIAM C. KELLOGG	-	-	-	-	-	-	November 27, "
ALBERT P. WELLS	-	-	-	-	-	-	December 11, "
WILLIAM H. DAVOL	-	-	-	-	-	-	December 15, "
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JOSEPH B. WHITE	-	-	-	-	-	-	January 14, "
THOMAS B. MARTIN	-	-	-	-	-	-	January 22, "
OSCAR F. RICHARDSON	-	-	-	-	-	-	January 23, "
MARY E. ADAMS	-	-	-	-	-	-	February 1, "
ADOLPH SCHWARZMANN	-	-	-	-	-	-	February 4, "
LEFFERTS L. BERGEN	-	-	-	-	-	-	February 22, "
SIDNEY WARD	-	-	-	-	-	-	February 26, "
JOHN S. KING	-	-	-	-	-	-	March 4, "
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Mrs. THOMAS STILLMAN	-	-	-	-	-	-	April 4, "
SAMUEL A. WOOD	-	-	-	-	-	-	April 6, "
ABRAHAM G. JENNINGS	-	-	-	-	-	-	June 3, "

A BRIEF HISTORY
OF
THE BROOKLYN INSTITUTE OF
ARTS AND SCIENCES

In the summer of 1823 several gentlemen, among whom was Augustus Graham, met at Stevenson's Tavern for the purpose of establishing for the apprentices of Brooklyn a Free Library. They adopted a constitution, and issued to the citizens of Brooklyn a circular, in which they solicited donations of books and money with which to effect their purpose. On November 20, 1824, they were incorporated by the Legislature of the State under the name of The Brooklyn Apprentices' Library Association, and on July 4, 1825, the cornerstone of the first building owned by the Association was laid by General Lafayette, at the junction of Henry and Cranberry streets. As early as 1835 the Association had outgrown its original quarters, and, the property having been sold to the city, the Institution was removed to a new building in Washington street, then the residential center of the young city of Brooklyn.

In order to broaden the scope of the Association, an amended charter was granted by the Legislature in 1843, and the name therein changed to that of the Brooklyn Institute. For many years thereafter the Institute was a most important factor in the social, literary, scientific and educational life of Brooklyn. Its library had a good circulation; its public hall was the scene of many historic and social gatherings, and from its platform were heard such eminent scientific men as Agassiz, Dana, Gray, Henry, Morse, Mitchell, Torrey, Guyot and Cooke; such learned divines as



GENERAL JOHN BLACKBURNE WOODWARD

TRUSTEE, 1867-1896; SECRETARY, 1885-1887; PRESIDENT, 1887-1895



THE ART BUILDING, 172-174 MONTAGUE STREET



OLD WASHINGTON STREET BUILDING, OCCUPIED 1835-1891

Doctors McCosh, Hitchcock, Storrs and Buddington, and such defenders of the liberties of the people as Phillips, Sumner, Garrison, Emerson, Everett, Curtis, King, Bellows, Chapin and Beecher.

During this brilliant period of its history (1843-1867) the Institute received from Mr. Graham two very important donations. On July 4, 1848, the building, which had been heavily mortgaged, he presented to the Trustees free from all encumbrance, and through his will, made known to the Board of Directors on November 28, 1851, shortly after his decease, he bequeathed to the Institute the sum of \$27,000 as a permanent endowment fund. The will directs that the interest of \$10,000 of this sum shall be used in the support of lectures on scientific subjects and in the purchase of apparatus and collections illustrating the sciences; that the interest of \$12,000 shall be used in the support of Sunday evening lectures on "The Power, Wisdom and Goodness of God as Manifested in His Works," and that the balance of \$5,000 shall be used in the support of a School of Design and in forming a Gallery of Fine Arts.

For several years, however, prior to 1867, owing to the erection of the Academy of Music and other public buildings, the Institute building was regarded as behind the times. The income from the rental of portions of the building was dwindling to a low figure, and the financial support of the free library was becoming inadequate. Under these circumstances the Directors remodeled the building in 1867, at an expense of about \$30,000, a part of which was raised by Life Membership Subscriptions of \$50 and \$100, and the balance by a mortgage on the building. For twenty years (1867-87) this indebtedness necessitated the application of a portion of the income from the rent of the building and from the Graham Endowment Fund to the payment of the interest and the principal of the debt. Final payment on the mortgage was made early in 1887.

The cause of the partial inactivity of the Institute during the twenty years (1867-87) is, therefore, apparent. The most that it was able to do was to circulate its library, to keep up its classes in drawing, and to provide for the annual addresses on the 22d of February. Freed from debt in 1887 the Institute was enabled once more to use the whole income from its funds and building for educational purposes, and to become once more an important agent in the work of education in the city.

The property of the Institute in 1887 consisted of the Institute building and land, valued at \$80,000, a library of 12,000 volumes, a collection of paintings valued at \$10,000, and Endowment Funds of \$46,000. These last comprised the \$27,000 bequeathed by Mr. Graham, the William H. Cary Fund of \$10,000 used in the support of the library, and an increment of \$9,000 realized through premiums on the sale of bonds.

1887-8.

During the year 1887-8 a new era in the history of the Institute was inaugurated. The Board of Trustees determined to make the property of the Institute the nucleus of a broad and comprehensive institution for the advancement of science and art, and its membership a large and active association laboring not only for the advancement of knowledge, but also for the education of the people through lectures and collections in the arts and sciences. It was observed that, while Boston had the Lowell Institute, a Society of Natural History and an Art Museum; while Philadelphia had the Franklin Institute, an Academy of Sciences and a Gallery of Fine Arts, and New York had the Metropolitan Museum and the American Museum, Brooklyn had nothing corresponding to these institutions. It was felt that Brooklyn should have an Institute of Arts and Sciences worthy of her wealth, her position, her culture and

her people; that it was her duty to do more than she was then doing for the education and enjoyment of her people, and that some step should be taken looking toward the future growth and needs of the city in matters of art and science.

Accordingly, a form of organization was adopted which contemplated the creation of a large association of members, and a continual increase of the Endowment Funds and the Collections of the Institute. Provision was made for a subdivision of the membership into departments, representing various branches of Art and Science, each department forming a society by itself and yet enjoying all the privileges of the general association. A general invitation was extended to citizens specially interested in Science and Art to become members of the Institute. Courses of lectures on Science and Art were provided. The Directors' Room of the Institute was enlarged to accommodate the meetings of some of the departments contemplated, and a large Lecture Room on the third floor of the Institute Building was fitted up at an expense of \$2,600 for the occupancy of those departments that would make use of apparatus and collections at their meetings.

1888-9.

During the first fifteen months after the reorganization of the Institute a membership of three hundred and fifty persons was recorded. The Brooklyn Microscopical Society joined the Institute in a body with sixty-four members, and became the Department of Microscopy. The American Astronomical Society, whose members resided mostly in New York and Brooklyn, became the Department of Astronomy, with thirty-two members. The Brooklyn Entomological Society united with the Institute, and became the Entomological Department, with forty-one members. The Linden Camera Club of Brooklyn became the Department

of Photography, with twenty-six members. Departments of Physics, Chemistry, Botany, Mineralogy, Geology, Zoölogy, and Archæology were successively formed. Each of the above twelve Departments began to hold monthly meetings. The permanent funds and property of the Institute were increased by \$3,000. Additions were made to the Library, its circulation was increased from 12,000 to 36,000 volumes per year, and a general citizens' movement to secure a Museum of Arts and Sciences for Brooklyn was inaugurated.

1889-90

The progress of the Institute during the year 1889-90 was even greater than in the preceding fifteen months. The membership of the twelve Departments organized the previous year was somewhat more than doubled. Eight new and strong Departments, viz., Architecture, Electricity, Geography, Mathematics, Painting, Philology, Political Science, and Psychology, were formed successively. The membership was increased from three hundred and fifty to eleven hundred. To the collections of the Institute were made very large additions. The Library was reorganized and its circulation increased from the rate of 36,000 volumes to 55,000 per year, and 1,500 new books were placed in the Library for the benefit of the Departments and their members. The number of lectures, exhibits and meetings of Departments was increased from about ninety in the previous year to two hundred and thirty. The attendance on the Department meetings was doubled, and amounted to 46,950. The number of members taking an active part in the meetings and in the work of the Institute was quadrupled. The quality of the lectures and addresses was an improvement over that of the previous year; and out of the abundance of active and increasing interest in the Arts and Sciences awakened by the old Brooklyn Institute the new

BROOKLYN INSTITUTE OF ARTS AND SCIENCES was born, destined to absorb the old Institute, to command the attention, the admiration, the love and support of every resident of the city, to foster the interests of other educational institutions, and to become a means for the education, the refinement and the uplifting of all.

1890-91

The growth of the Institute received a temporary check during the year 1890-91. On September 12th a serious fire in the Institute Building rendered it unfit for immediate use. But through the generous hospitality of other institutions in the city it was possible to carry on the work elsewhere. The Young Men's Christian Association, the Union for Christian Work, the Packer Collegiate Institute, the Brooklyn Library, the Polytechnic Institute, the Brooklyn Heights Seminary, the Church of the Saviour, the Adelphi Academy, and the Brooklyn Art Association each contributed the use of rooms for the lectures and the work of the Departments. And, notwithstanding the fact that the work was distributed at various points, the Institute's progress was of a permanent and substantial character. Three hundred and twelve new members were added. The membership of each of the twenty Departments was enlarged. The number of lectures and meetings was increased to three hundred and ten, as against two hundred and thirty in the previous year. The attendance on the lectures was augmented, reaching a total of 99,200. The Geographical Department brought together a collection of geographical appliances, consisting of maps, globes, charts, reliefs, models, atlases, treatises, text-books and other publications, valued at \$6,000. The Geographical Collection was exhibited in Brooklyn for four weeks, and in Boston for three weeks. The Boston Exhibition was visited by about 16,000 people, and the Brooklyn

Exhibition by upwards of 27,000 people. Subscriptions towards the Endowment Fund were made to the amount of \$51,500, and by act of legislation the city was authorized to expend \$300,000 in the erection of a portion of the proposed Museum of Arts and Sciences on Prospect Heights.

1891-2.

During the fourth year of active work after the reorganization of the Institute, six hundred and thirty-two new members were recorded, of whom about one-third were teachers in our public and private schools; the Architectural Department established a school for junior architects and draughtsmen. The Department of Painting aided in the establishment of an Art School. The Department of Geography exhibited its collection in New York City for four weeks for the benefit of the teachers and citizens of New York and vicinity. The Department of Music was established during the autumn by the members of the musical profession, with a membership of one hundred and seventeen. The Department of Pedagogy was organized in March with two hundred and six members from the teaching profession. The Photographic Department was provided with an excellent suite of rooms fitted up at an expense of about \$1,000. Two Summer Schools of Art were established, one of them at the seashore and the other in the mountains. The Departments of Architecture, Microscopy and Photography gave large and excellent exhibitions that were free to the public. The number of lectures and meetings by the Departments was increased from three hundred and twelve in the previous year to four hundred and five. The total attendance on the lectures, meetings and exhibitions was increased from ninety-nine thousand to one hundred and twenty thousand five hundred. Subscriptions to the Endowment Fund were received amounting to \$16,000.

The real estate belonging to the old Brooklyn Institute in Washington street was sold to the Trustees of the New York and Brooklyn Bridge, and the net proceeds of the sale, amounting to \$72,000.00, were invested in city bonds. The old Brooklyn Institute was consolidated with the new Brooklyn Institute of Arts and Sciences, transferring thereto its property and estate, amounting to \$139,286.00, in invested funds, together with collections, library and other property valued at \$42,450.00. The Mayor and Park Commissioner selected as the site for the proposed Museum Buildings the East Side lands, bounded by the Eastern Parkway, Washington avenue, the south side of old President street and the Prospect Hill Reservoir.

1892-3

During the fifth year the growth of the educational work of the Institute was greater than that of any preceding season. Nine hundred and forty new members were added to the roll; the number of lectures, addresses, concerts and exhibitions open to all the members was 482, as against 405 the previous year. The number of lectures and class exercises open to members and others by the payment of a moderate fee was 1,397, as against 1,134 the previous year; the number of concerts was increased from 8 to 15. The average daily attendance on the exercises of the Institute for the eight months of active work was 936, and the total attendance for the year 190,900. The annual income was increased from \$18,934.20 in the previous year to \$31,641.51. Institute Extension Courses of lectures were given in the eastern section of the city. The School of Political Science was established with four classes and ninety-six pupils. The Art School was transferred to new and larger quarters in the Ovington Studio Building, and the number of pupils was increased from ninety-four to one hundred and twenty-

eight. The Department of Architecture, acting through its Advisory Board, devised a scheme of competition for the best plan and design for the proposed Museum of Arts and Sciences, which was approved by the Board of Trustees, and adopted by the Mayor and Park Commissioner; and a competition for the best plan and design for a Museum Building was completed with most satisfactory results.

1893-4

During the sixth year of educational work under the new constitution nine hundred and seventy-nine new members were enrolled. The total number of members was increased from 2,622 to 3,457. The total number of lectures, conferences, class exercises, and Department meetings was increased from 1,879 to 2,212. The Department of Domestic Science was organized with a membership of forty-two. The annual income was increased from \$31,641.51 in 1892-3 to \$40,169.35. The average daily attendance on the exercises of the Institute was 1,177. The Mayor and Park Commissioner leased to the Institute eleven and nine-tenths acres of land for a period of one hundred years, at one dollar per year, as a site for the Museum Building. The Legislature of the State of New York authorized the expenditure of \$50,000, in grading the Institute Park lands, including the Museum site. The Department of Parks of the City of Brooklyn leased at a nominal rental the Bedford Park Building to the Institute for temporary Museum purposes. The Departments of Geography, Zoölogy, Botany, Geology, Mineralogy and Chemistry arranged their collections in the Bedford Park Building for public exhibition; and the State Legislature increased the rate of interest on the Museum of Art and Science Bonds to not exceeding four per cent. to enable the city to sell the bonds and to erect the first section of the Museum Building.

1894-5

During the seventh year of work under the new constitution, the growth in the annual income and in the attendance on the meetings of the Institute was in a measure checked by the general financial depression under which the country suffered, and also by the serious interruption of public travel caused by the strikes on the surface railways of the city. The number of members, however, was increased from 3,457 to 3,764. The total number of lectures, conferences, class exercises and Department meetings was 2,621 as against 2,212 in the previous year. The Department of Law was organized with a membership of one hundred and twenty-three. The Department of Entomology was reorganized with an increased membership. The annual receipts increased from \$40,169.35 to \$44,756.13. The Temporary Museum Building in Bedford Park was opened to the public on Thursday and Saturday afternoons. A fund of \$1,500 was raised to aid Prof. WILLIAM H. GOODYEAR in making a series of surveys and photographs of Mediæval Architecture in Italy. The site of the Brooklyn Museum of Arts and Sciences was surveyed, and the elevation of the base line of the building fixed at 175 feet above sea level. The working plans and specifications for the northern portions of the Museum were completed, and the Museum Commission advertised for contracts for the erection of the northwest section of the Museum Building.

1895-6

The year 1895-6 was one of the most eventful in the history of the Institute. The site for the Museum Building was graded during the months of September and October. The contract for the erection of the northwest section of the Museum Building was given by the Mayor and Park Commissioner on September 1 to Messrs. P. J. CARLIN &

Co. for \$254,675.00. Ground was broken with appropriate ceremonies by the Hon. FRANK SQUIER, Park Commissioner, for the foundation of the building, on September 14. The corner-stone of the structure was laid by Mayor CHARLES A. SCHIEREN on December 14, in the presence of a large gathering of citizens, and the construction was carried to the third floor of the building. The educational work was characterized by an increase in the attendance from 215,150 to 268,580. The number of lectures, class exercises and other educational gatherings was increased from 2,567 to 3,069. The net increase in the membership was from 3,764 to 4,168. The Department of Music gave a series of Philharmonic Concerts in conjunction with the Brooklyn Philharmonic Society by the Boston Symphony Orchestra. The receipts applicable to the payment of running expenses were increased from \$44,756.13 to \$66,199.73. The Endowment Fund received from the estate of the late JOSEPH T. PERKINS the sum of \$10,000.00. The Institute became the owner of a majority of the stock of the Brooklyn Art Association. The Herbarium and Botanical Collections of the late Rev. CHARLES H. HALL, D.D., LL.D., were presented to the Department of Botany by Mrs. HALL in accordance with the request of Dr. HALL; and the State Legislature authorized the continuance of work on the Museum Building at an expense not exceeding \$600,000.

Accompanying this growth the Institute suffered losses by the death of an unusually large number of valuable members. The Rev. CHARLES H. HALL, D.D., LL.D., for seven years President of the Associate Members, and six years a member of the Board of Trustees, died on September 12, 1895. Gen. JOHN B. WOODWARD, a member of the Board of Trustees for twenty-seven years, Secretary of the Board of Trustees for four years, and President of the Board of Trustees from 1888 to 1895, inclusive, died on March 5, 1896. Mr. JOHN D. JONES, the founder of the

Biological Laboratory at Cold Spring Harbor, and a generous contributor to its resources, died September 20, 1895, and Mr. JOSEPH T. PERKINS, a Patron of the Institute, died on July 12, 1895.

1896-7

The year 1896-7 witnessed an increase in the membership from 4,168 to 4,704, in the attendance from 268,580 to 302,426, in the number of lectures, conferences, concerts, readings and class exercises from 3,069 to 3,416, and in receipts from \$66,199.73 to \$67,983.85. The State Legislature passed a law providing \$10,000.00 for the care and maintenance of the Museum Building during the year 1897; included in the Charter of the Greater New York were provisions for the continuance of all laws affecting the Institute unimpaired, and for the care and maintenance of the Museum Building and its contents, and annual appropriation by the City of New York of a sum not less than \$20,000.00; and authorized the establishment of a Botanic Garden and Arboretum on the Park Lands south of the Museum site as a proper approach to the Museum Building. The first section of the Museum Building was completed on May 14, 1897. A very valuable loan collection of paintings and other works of art, comprising some six hundred entries, was placed in the galleries on the first and third floors during the latter part of May, and the entire Museum was thrown open to the public on Wednesday, June 2, to remain open daily for the benefit of all.

1897-8

During the tenth season, after the reorganization of the Institute effected in 1887-8, the Museum Building was equipped with engines, dynamos, electric ventilating fan, electric elevator, electric lights, natural history cases, furniture and fixtures, making the entire cost of the building

and equipment \$335,500.00. The Museum Building was dedicated with appropriate exercises on October 2. The Loan Collection of Paintings and other works of Art installed in May was kept on exhibition until November 1. A second loan collection of paintings was installed in November, numbering 421 canvases, and this collection, together with the paintings belonging to the Institute, continued on exhibition in the galleries on the third floor of the Museum. Portions of the Scientific Collections of the Institute in Mineralogy, Geology, Zoölogy, Botany, Entomology, Archæology, Geography and Ethnology were transferred from the Bedford Park Building to the new Museum and installed in the galleries in the basement and second floors. Loan Collections in Mineralogy, Paleontology, Entomology, Archæology and Ethnology were placed on exhibition from time to time in the galleries of the basement and second floors. Most valuable works of art were presented by Mr. A. AUGUSTUS HEALY, Mr. JAMES A. H. BELL, Mr. ABRAHAM ABRAHAM, Mr. JOSEPH JEFFERSON, Mr. E. K. AUSTIN, Mr. FREDERICK J. ADLER, Mr. C. F. BROOKS, Mr. SAMUEL P. AVERY, Mrs. SAMUEL B. DURYEA, Col. ROBERT B. WOODWARD, Mr. PETER LAUCKHARDT, the REMBRANDT CLUB and the estate of the late JOHN H. PRENTICE. Eighty-five selected casts from Greek and Roman Sculptures were presented by Members and friends of the Institute and installed in the Hall of Greek Sculpture on the first floor of the Museum. Mr. FRANK S. JONES presented the Institute with \$3,500.00, with which to purchase the GEBHARD GEOLOGICAL COLLECTION, representing the Paleontology of the State of New York. Subscriptions were made amounting to \$3,000.00 by Mr. HENRY H. BENEDICT, JAMES H. BATES, FRANK SHERMAN BENSON, Mrs. ARTHUR W. BENSON, Miss MARY BENSON, Hon. WILLIAM B. DAVENPORT, Hon. CHARLES A. SCHIEREN, Hon. TIMOTHY L. WOODRUFF, Mr. CHARLES B. HEWITT, Mr. HENRY K. DYER,

Mr. MARTIN JOOST and Mr. ALVAN R. JOHNSON, with which to purchase the WILLIAM WALLACE TOOKER COLLECTION of Indian Relics of Long Island and the Collection was purchased and installed in the Museum. Mr. JAMES A. H. BELL presented collections of paintings, sculptures and other works of art; a library of music, and collections in mineralogy and conchology. Very valuable additions were made to the Collections in Ornithology by Mr. A. B. LOUNSBERRY, Mr. ROBERT A. PEAVEY, Mrs. A. M. MATHESON and Mrs. N. L. TERRELL and others; to the Collections in Mineralogy by Mr. ALEXANDER M. WHITE, Mr. GEORGE L. ENGLISH, Mr. JOHN W. FRECKELTON, Mr. JAMES WALKER, Miss J. HUSSON, and others; to the Herbarium by JOHN COOPER, M.D., Mr. LUCIUS BELL and Mrs. NATHANIEL L. BRITTON; to the Archæological Collection a series of Egyptian jars by Mrs. MARY L. BEERS.

The Library received additions numbering 1,048 volumes and many pamphlets. Fourteen shares of stock in the Brooklyn Art Association were presented in exchange for Life Membership Certificates in the Institute. Four courses of lectures were given in the Eastern District of Brooklyn. The Membership was increased from 4,704 to 5,417. The attendance on lectures, classes, concerts, readings and meetings of Departments was 334,670. The registered attendance at the new Museum Building was 126,046. The total attendance for the year reached 460,716. The annual income grew from \$67,983.85 to \$99,058.20. The City of Brooklyn appropriated \$10,000.00 to meet the expense of the care and maintenance of the Museum during the period June 1 to December 31, 1897. The City of New York set apart \$20,000 for the care and maintenance of the Museum during the year 1898, and the Department of Parks of the City of New York graded portions of the Museum grounds lying south of the Museum Building.

1898-9

During the educational year 1898-9 the membership was increased from 5,417 to 5,975; the number of lectures open to all members on the presentation of the weekly membership ticket from 544 to 572; the total number of meetings and class exercises from 3,558 to 3,806; the attendance on lectures, concerts, dramatic readings and class exercises from 334,670 to 360,980. The attendance at the Museum Building was 92,736, and the total attendance for the year 453,716. The annual income of the Institute, applicable to the payment of current expenditures, was increased from \$99,058.20 to \$119,965.12. Mr. FRANK S. JONES, Member of the Board of Trustees, presented to the Institute \$10,000.00 to be used in the purchase of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA, numbering some forty thousand specimens. Mr. EDWARD L. GRAEF, Curator of Entomology, presented to the Institute his entire Collection in Lepidoptera, numbering some fifteen thousand specimens. Mr. A. AUGUSTUS HEALY, President of the Board of Trustees, presented a colored Majolica Lunette by GIOVANNI DELLA ROBBIA, entitled "The Resurrection of Christ." Mr. WILLIAM T. EVANS presented a Portrait of WILLIAM CULLEN BRYANT by the late WYATT EATON. A large number of donations were made to the scientific and art collections, descriptions of which appear in the eleventh Year Book (1898-9), under the respective Departments to which the gifts naturally belong. To the scientific collections were added, by purchase, thirty compound microscopes and two microtomes for the Department of Microscopy, at an expense of \$1,124.50; apparatus for the Department of Physics at an expense of \$520.00; apparatus for the Department of Archæology costing \$560.00; apparatus for the Departments of Geography and Geology costing \$960.00. On the recommendation of the Council of the Institute the Trustees deter-

mined to establish a CHILDREN'S MUSEUM in the Bedford Park Building. Apparatus and collections for the equipment of this Museum were ordered at an expense of \$2,-600.00. The SCHOOL OF PEDAGOGY was established with five classes and an enrollment of 522 students. Application was made by the Board of Trustees to the authorities of the City of New York for the issuing of bonds as authorized by law for the continuation of the work of construction on the Museum Building. This application was approved by the Department of Buildings, Lighting and Supplies, and was laid before the Board of Estimate and Apportionment of the City of New York in June, 1899.

1899-1900

During this year the membership was increased from 5,975 to 6,391; the total number of lectures, class exercises, concerts, readings and Department meetings from 3,806 to 4,057; the attendance, exclusive of the Museums, from 360,980 to 390,255; the attendance at the Central Museum from 92,736 to 101,261; the attendance at the Children's Museum was 28,635, and the total attendance for the year was increased from 458,746 to 530,151. The annual income available for carrying on the educational work was increased from \$119,965.12 in 1898-9 to \$147,096.65. The Endowment Fund was increased by \$15,000, received from the estate of the late JOSEPH C. HOAGLAND, for ten years a Member of the Board of Trustees. This year was also distinguished by the organization of the Department of Philosophy; by the establishment and opening (on December 16, 1899) of the Children's Museum, and by the development of the Museum work. Prof. WILLIAM H. GOODYEAR, M.A., was appointed on full time as Curator of Fine Arts; Prof. R. ELLSWORTH CALL, M.D., Ph.D., as Curator of the Children's Museum; Mr. GEORGE K. CHERRIE as Curator of Ornithology; Mr.

CHARLES T. GOODWIN as Superintendent of the Museums; ALFRED G. MAYER, S.D., as Curator of Natural Science; ABEL J. GROUT, Ph.D., as Curator of Botany; Prof. JOHN S. MCKAY as Curator of the Collections in the Physical Sciences; Miss SUSAN A. HUTCHINSON as Librarian of the Department of Libraries; Miss MIRIAM S. DRAPER as Librarian of the Children's Museum Library. The Scientific and Art Collections received many additions, described under the several Departments in the twelfth Year Book (1899-0). Notable among these are a portrait of General JOHN B. WOODWARD, painted by FEDOR ENCKE, presented by Colonel ROBERT B. WOODWARD; a landscape entitled "On the Plains of Hungary," painted by OTTO DE THOREN and presented by Mr. JOHN B. LADD; a marble bust, entitled "The Madonna," Mr. WILLIAM ORDWAY PARTRIDGE, sculptor, presented by Mr. GEORGE FOSTER PEABODY, and a landscape by GEORGE H. BOGERT, presented by Mr. GEORGE A. HEARN. During this year the Institute purchased from Mr. JAMES J. TISSOT, of Paris, his collection of four hundred and sixty-one paintings and drawings, illustrating the life of Christ, for the sum of \$60,000.00, and raised by subscription \$53,000.00 towards the purchase price. Also during this year the city government authorized the issue of the corporate stock of the city to the amount of \$300,000.00, with the proceeds of the sale of which funds were made available for the erection of the masonry, brick and iron work of the second section of the Museum Building. The contract for the work was let in May for \$296,000.00, and ground was broken on June 6 with appropriate exercises.

1900-1901

During the twelfth year since the reorganization of the Institute the membership was increased from 6,391 to 6,836; the attendance at the Children's Museum was 79,756; at the

Central Museum 110,634, and at the lectures, concerts, readings, courses of instruction, exhibitions, etc., was 351,736; the total attendance for the year was 542,126, as against 530,151 in the preceding year; and the total income was increased from \$147,096.65 to \$197,844.33. The subscription to the fund for the purchase of the TISSOT COLLECTION OF PAINTINGS ILLUSTRATING THE LIFE OF CHRIST was increased from \$53,000 to \$60,000; the paintings were paid for by the Institute in January; two galleries on the third floor of the Museum were provided with screens and re-decorated to receive the paintings; the entire collection was re-framed at an expense of about \$4,000, and the pictures were hung for permanent public exhibition in May. The Institute received an unusually large number of gifts during the year; the more notable of those added to the art collections were as follows: From Col. ROBERT B. WOODWARD, 490 pieces of ancient Syrian and Egyptian glass; from Messrs. A. AUGUSTUS HEALY and FRANK HEALY, an oil painting by LOUIS GALLAIT, entitled "The Last Honors to Counts Egmont and Horn;" from Mr. WILLIAM A. PUTNAM, an oil painting by BEN FOSTER, entitled "A Misty Moonlight Night;" from Mr. GEORGE A. HEARN, an oil painting entitled "Dordrecht," by GEORGE H. BOGERT; from Hon. CARLL H. DE SILVER, 18 pieces of Japanese ceramic art and an oil painting entitled "A Landscape," by HENRY P. SMITH; from Mrs. THEODORE JACOBY, a Wagner alto Viola; from Mr. L. W. LAWRENCE, a bronze replica of the "Flying Mercury," by GIOVANNI DE BOLOGNA; from Mr. A. E. OVERTON, a pair of Japanese Satsuma Vases; from Mr. BENJAMIN T. FROTHINGHAM, 209 mounted photographs from negatives taken by Dr. SCHLIEMANN at Troja, Mycenae and Tiryns; and from eleven of the Trustees a portrait of William Cullen Bryant by DANIEL HUNTINGTON. To the scientific collections gifts were made during the year of 19,429 specimens; among the

larger of these gifts were the following: From Mr. WILLIAM LINCOLN CHAPEL, 3,147 birds' eggs, nests and skins; from Mrs. JOHN H. BURTIS, 2,500 shells, together with a collection of corals and ethnological specimens; from Mrs. GEORGE D. HULST, about 12,000 plants from the collection of the late Rev. GEORGE D. HULST, Ph.D.; from Hon. EUGENE G. BLACKFORD, 145 specimens of fossil fishes and nearly an equal number of specimens of living species; from the Hon. CHARLES A. SCHIEREN, 117 species of Cliff Dwellers' Pottery and relics; from Mr. CHARLES HOWARD REMINGTON, 440 birds' eggs, also several fossils and Indian relics; from Mrs. ANNIE MORRILL SMITH, 167 plants; from THE H. W. JOHNS MANUFACTURING COMPANY, 77 specimens of asbestos, native and manufactured; from Dr. ABEL J. GROUT, 150 plants; from Mr. JACOB DOLL, 297 insects and vertebrates; from Mr. ROBERT W. PEAVEY, 22 mounted birds; from Mrs. J. P. GERAN, 18 mounted birds; from Mr. GEORGE K. CHERRIE, 10 birds and mammals. The Museum received an unusually large number of valuable loans to its art collections; from Mr. A. AUGUSTUS HEALY, 30 paintings; from Col. ROBERT B. WOODWARD, 18 paintings; from Mr. HENRY H. BENEDICT, 3 paintings; from Mr. J. WILLIAM BROWN, 2 paintings; from Col. HENRY T. CHAPMAN, 3 paintings; from Mrs. CHARLES R. BAKER, 5 paintings; from Mr. JOHN S. JAMES, 4 paintings; from Mr. CHARLES HOWARD REMINGTON, 12 paintings; from Mrs. ANNA STEWART GOODWIN, Mrs. CORNELIA K. HOOD, the Hon. FRANK SQUIER and Mr. RUSSELL STURGIS 2d, 1 painting each; from the ARION SINGING SOCIETY, the Emperor's Prize of Honor; from Mr. FRANCIS LE BARON, 9 of the original bronzes by John Rogers; from Mr. CLAYTON L. MOAK, a Japanese Art Collection; from Mr. A. A. HOPKINS, a collection of Italian photographs. The Museum acquired by purchase, collection and exchange 1,754 additions to its scientific collections, and a large collection of electrotpe reproductions

of the British Museum collection of Greek coins. The Mastodon skeleton presented to the Institute in 1889 was mounted in the Museum Building; the Department Libraries at the Central Museum and the Children's Museum Library in Bedford Park were organized and made available for use by the public; four new rooms were fitted up for exhibition purposes in the Children's Museum, and Volume I, No. 1, of the Science Bulletin of the Museum was published. The City of New York appropriated for the maintenance of the Institute Museums for the year 1901, \$55,000. The work of construction of the second section of the Museum Building was in progress throughout the year and the masonry was carried up to the base of the dome previous to July 1. The plans and specifications for the completion of the second section were made by the architects. Application to the Park Commissioner of Brooklyn and Queens, the Hon. GEORGE V. BROWER, for the issue of bonds to provide for the continuance of work on the Museum Building was made by the authority of the Trustees and Council, and the Park Commissioner made requisition on the Board of Estimate and Apportionment of the City of New York for the issue of bonds to the amount of \$300,000, by the sale of which provision may be made for the continuance of the work of Museum construction.

1901-2

During the year 1901-2 the membership was increased from 6,836 to 7,215; the attendance at the Children's Museum was 84,487; at the Central Museum 113,995; at the lectures, concerts, readings, class exercises, exhibitions, etc., 254,361; and the total attendance for the year was 452,803, and the total annual income \$146,077.52. The additions to the Scientific Collections of the Museum numbered 25,007, among the more important of which was a collection of

Marine invertebrates from Japan, presented by the Hon. EUGENE G. BLACKFORD; a collection representing the Marine life of the North Atlantic coast, made by ALFRED G. MAYER, S.D.; the S. E. STILES Collection of microscopical apparatus and preparations; a large collection of Mosses presented by Mrs. ANNIE MORRILL SMITH; a collection of 4,000 specimens of Lepidoptera, presented by CHARLES S. MCKNIGHT, M.D.; a collection of surveys, maps and pictures of Peru, presented by the Hon. FRANK SQUIER, and a collection of 116 pieces of pottery from the Cliff Dwellings and Pueblos of Arizona and New Mexico, presented by the Hon. CHARLES A. SCHIEREN. The gifts in the Departments of Fine Arts include additions to the collection of ancient oriental glass, made by Col. ROBERT B. WOODWARD; several Japanese Ceramics and small swords, and a large Chinese bowl, presented by Hon. CARLL H. DE SILVER; a painting entitled "Strandgut," painted by Adolf Hering, and presented by Mr. HENRY BATTERMAN; and two paintings of unusual value presented by Mr. A. AUGUSTUS HEALY, entitled "Meditation," by G. Belloni, and "The Apple Orchard," by Daubigny. \$500.00 was contributed by Mr. ABRAHAM ABRAHAM to support courses of lectures on the Fine Arts; \$500 by Mr. GEORGE A. HEARN, to be used in purchasing photographs of Italian Art; \$1,250 was subscribed to a fund for explorations in the Southwest, and \$1,150 for the purchase of the Riggs Collection of Ancient Pueblo pottery. The largest gift ever received by the Institute from a single citizen was the addition to the permanent endowment of \$50,000, presented by Col. ROBERT B. WOODWARD, and to be known as the Woodward Memorial Funds; \$25,000 of which is a fund in memory of the late JOHN B. WOODWARD, and the balance of \$25,000 is a fund in memory of ELLA C. WOODWARD,—the interest of these two funds to be used in the purchase of works of Art for the Museum. The City of New York issued in December, 1901, corporate stock to the

amount of \$300,000, the proceeds of the sale of which are to be used in completing the interior of the Central Section of the Museum, and appropriated for the annual support and maintenance of the Institute Museums, the sum of \$60,000. The exterior of the Central Museum Section was completed during the year, and the Department of Parks awarded in June, 1902, the contract for the interior work at \$274,500. The Board of Estimate and Apportionment authorized the issue of corporate stock of the City to the amount of \$150,000 to provide a power-house and power-plant, together with fixtures and decorations for the Central Section of the Museum.

1902-3

During this educational year, the attendance at the Children's Museum was 110,834; at the Central Museum 109,395; at the lectures, concerts, class exercises, exhibitions, etc., 255,757; the total attendance for the year was 465,986. The total income was \$159,958.09. The Endowment Funds were increased by the sum of \$16,400, through a gift of \$10,000 by Mr. FREDERICK LOESER, the interest of which is to be expended annually in the purchase for the Museum of photographs of paintings and other works of art, plaster casts of important sculptures, and, in case the Museum is well supplied with these, of works of art; and also through a bequest made by the late JAMES A. H. BELL, the amount of which so far received is \$6,400.

The additions to the scientific collections number 13,480, and among the more important of these are a collection of marine animals from the North Atlantic Coast, made during an expedition in the summer of 1902 by Dr. ALFRED G. MAYER; some 150 mammals, birds and reptiles from the New York Zoölogical Garden; some 50 birds from the Rockaway Rod and Gun Club; three very valuable skins

of Mammals from Mrs. WILLIAM B. DAVENPORT; and a large collection of fossils from New York State, made by Mr. FREDERICK BRAUN. The additions to the art collections include six very valuable paintings from the estate of the late HENRY W. MAXWELL; an oil painting entitled "A Gray Morning," by LEONARD OCHTMAN, from the income of the Woodward Memorial Funds; extensive collections of Japanese and Chinese works of art presented by Col. ROBERT B. WOODWARD, Mr. GEORGE C. BRACKETT and Hon. CARLL H. DE SILVER; an oil painting entitled "A Winter Scene in Norway," by J. JUNGBLUT, from Mr. HENRY BATTERMAN; a Japanese carving in wood and ivory with gold lacquer ornaments representing the Chinese warrior WU YUNG, presented by Mr. THOMAS T. BARR; an oil painting "The Morteratsche Glacier, Upper Engadine," by ALBERT BIERSTADT, presented by Mrs. ALBERT BIERSTADT; a Japanese palanquin, a Japanese wrought-iron eagle, and a Japanese image representing the Dragon King Rio Wo, presented by Hon. ALFRED T. WHITE; a replica of the Lemnian Athene from the bronze original by PHIDIAS, presented by Mr. GEORGE FOSTER PEABODY; and 69 additional pieces of European china from the Rev. ALFRED DUANE PELL. Among the important loans to the art exhibits of the Museum are 34 oil paintings from Hon. CARLL H. DE SILVER; 18 oil paintings from the Hon. CHARLES A. SCHIEREN, and a collection of Japanese lacquers, bronzes and porcelains from Mr. CLAYTON L. MOAK; a collection of 45 18th Century fans from Mrs. E. LE GRAND BEERS; a painting from Mrs. E. L. GOODNOW and Mrs. I. L. BIGELOW; also one painting each from Mr. ROBERT J. KIMBALL, WILLIAM S. HUGHES and Col. HENRY T. CHAPMAN; and 119 pieces of Tiffany favrile glass loaned by Mr. CHARLES W. GOULD. Fuller descriptions of the accessions to the scientific and art collections will be found under the reports of the Museum (1902-3).

The Department of Ethnology was established in February, and Mr. STEWART CULIN was appointed Curator of Ethnology in March, 1903. Seventeen of the Trustees subscribed each \$100 to meet the expenses of making collections in Ethnology in Arizona and New Mexico. Mr. CULIN was sent in April on a six months' expedition to the southwest, and the very large ethnological collections made by Mr. CHARLES DAY, of Arizona, were purchased by Mr. CULIN through the generosity of Messrs. A. AUGUSTUS HEALY and GEORGE FOSTER PEABODY for the Museum. The collections in Ethnology were also enriched by important gifts of objects from Hawaii, presented by Col. ROBERT B. WOODWARD and Mr. GEORGE C. BRACKETT; by collections of pottery from the Pueblos of New Mexico and Arizona, presented by the Hon. CHARLES A. SCHIEREN; and by Chinese and Indian coins presented by Mr. ROBERT C. W. BROCK, of Philadelphia. Messrs. JACOB DOLL and CARL SCHAEFFER were sent on an entomological expedition to Texas during the months of April to July. Dr. ALFRED G. MAYER made an expedition to the Bahamas during June and July to study the marine life of the Bahama Archipelago, and to make collections for the Museum. A fund of \$1,000 was raised to defray the expenses of an expedition by Prof. WILLIAM H. GOODYEAR to study the architecture of France and Constantinople.

The work of completing the interior of the second section of the Museum Building was under way during the entire year. Contracts were made during the year by the Department of Parks of the City of New York for a Museum power house and power plant at \$78,693; for Natural History cases for the second floor of the Museum at \$23,450; for orchestra chairs for the Museum auditorium at \$13,272. The City appropriated for the annual support and maintenance of the two Museums of the Institute \$70,000. Plans and specifications for the third section or eastern wing of the

northern façade of the Museum Building were prepared by the architects and on July 1, 1903, the Board of Estimate and Apportionment of the City authorized the issue of the corporate stock of the City to the amount of \$454,000 to provide for the construction of the third section or eastern wing of the Museum.

1903-4

During the year just closed, the work of the Institute was seriously affected by the destruction on November 30 of the Academy of Music, in which the most largely attended concerts and lectures had been given, and by the fright occasioned by the destruction of life at the Iroquois Theatre fire in Chicago in December. Through the courtesy of the pastor, officers and trustees of the BAPTIST TEMPLE, the use of the Temple was very generously made available for the larger concerts during the year, and most of the educational work was carried out as planned.

To the collections in the Department of Ethnology a collection of carved figures and implements from the south sea islands was added through the generosity of Mr. A. AUGUSTUS HEALY, Hon. CARLL H. DE SILVER and Col. ROBERT B. WOODWARD. A collection illustrating the ethnology of the Zuni Indians was presented by several Trustees of the Institute at an expense of \$1,000. Some one hundred and seventeen enlarged bromide photographs, illustrating the architecture of France, from negatives obtained from Prof. WILLIAM H. GOODYEAR in the summer of 1903 were made, framed, exhibited for three weeks in the Boston Public Library in April and hung in the Museum in May. Large additions were made to the Natural Science Collections through the expeditions of ALFRED G. MAYER, S. D., to the Bahamas and to the coast of Massachusetts; of Messrs. JACOB DOLL and CARL SCHAEFFER to southern Texas, and through gifts from the New York Zoölogical Society and

many friends of the Institute. The position of Curator-in-chief of the Museums was created in February and held by ALFRED G. MAYER, S.D., from February until May 15 and after that date by Mr. FREDERICK A. LUCAS. Subscriptions were made during the year for the purchase of the painting "The Vision of the Dying Virgin," by CORNELIS SCHUTT, amounting to \$3,600; for the Biological Laboratory at Cold Spring Harbor, \$980, and for the purchase of collections for the Museum, \$5,600. The Rev. ALFRED DUANE PELL added some 200 pieces to his collection of European China. Mr. GEORGE A. HEARN presented a landscape painting by GEORGE H. BOGERT. Bequests were received from the estate of HENRY K. SHELDON of \$2,375, to be added to the general endowment fund, and of \$9,500, the income from which is to be used in support of Orchestral and Chamber Music concerts. Bequests were also received from the estates of Mrs. AUGUSTA M. OSBORN of \$1,905, and from WILLIAM F. SEBERT of \$500, together with two telescopes equatorially mounted.

Contracts were let during the year by the Department of Parks, with the advice and approval of the Trustees, for 38 ethnological cases at \$18,496, and for painting the interior of the second Museum section at \$6,850. The Second Section of the Museum was completed in June and the Power House and Power Plant in July, 1904. The Natural History Cases were set up on the second floor of the second Museum section in May and June, at a cost when completed of \$23,450. The City appropriated for the maintenance of the Museums for the year \$70,000, and the entire income of the Institute was \$162,873.60. The contract for erecting the eastern wing or third section of the Museum was awarded by the Department of Parks in December, 1903, for \$407,315, and in February, 1904, for the electric light fixtures for the second Museum section for \$7,216. On June 17, the Board of Estimate and Apportionment

appropriated \$97,000, to be used in constructing the front steps and substructure, the front approach to the Museum and in defraying the cost of carving the pediment of the front portico of the Museum. The work of building the third section of the Museum was begun by the breaking of ground on March 7 and by the laying of the foundations on June 15.

THE GROWTH OF THE INSTITUTE

I—THE MEMBERSHIP

	Number of Members.	Annual Increase
June 1, 1888	82	
" 1889	352	270
" 1890	1,118	766
" 1891	1,342	206
" 1892	1,782	458
" 1893	2,622	840
" 1894	3,457	835
" 1895	3,764	307
" 1896	4,168	404
" 1897	4,704	536
" 1898	5,417	713
" 1899	5,975	558
" 1900	6,391	416
" 1901	6,836	445
" 1902	7,215	379
" 1903	7,278	63
" 1904	6,974	*304

*Decrease.

II—THE NUMBER OF LECTURES, MEETINGS AND CLASS EXERCISES

	Meetings Open to All Members.	Special Meetings and Class Exercises.	Total Number of Meetings.
1887-88	18	60	78
1888-89	90	104	194
1889-90	230	215	445
1890-91	312	622	934
1891-92	405	1,134	1,539
1892-93	482	1,397	1,879
1893-94	489	1,723	2,212
1894-95	496	2,125	2,621
1895-96	502	2,567	3,069
1896-97	541	2,875	3,416
1897-98	544	3,014	3,558
1898-99	572	3,234	3,806
1899-00	593	3,464	4,057
1900-01	591	3,653	4,244
1901-02	562	3,610	4,172
1902-03	564	3,728	4,292
1903-04	542	3,536	4,078

III—ATTENDANCE

	Attendance Children's Museum.	Attendance Central Museum.	Attendance at Lectures, Exhibitions, etc.	Total Attendance for Year
1887-88			6,900	6,900
1888-89			18,300	18,300
1889-90			46,950	46,950
1890-91			99,200	99,200
1891-92			120,500	120,500
1892-93			190,900	190,900
1893-94			212,415	212,415
1894-95			215,150	215,150
1895-96			268,580	268,580

	Attendance Children's Museum.	Attendance Central Museum	Attendance at Lectures, Exhibitions, etc.	Total Attendance for Year.
1896-97			302,426	302,426
1897-98		126,046	334,670	460,716
1898-99		92,736	360,980	453,716
1899-00	28,261	101,261	390,225	519,747
1900-01	79,756	110,634	351,736	542,126
1901-02	84,487	113,955	*254,361	452,803
1902-03	110,834	109,395	*255,757	465,986
1903-04	95,738	115,695	*235,587	431,712

*There were no important public exhibitions of pictures or other collections outside of the museums in 1901-2, 1902-3 and 1903-4.

IV.—INCREASE IN RESOURCES

	Income.	Permanent Funds
1887-88	\$4,456 70	\$37,000 00
1889-90	11,412 25	66,000 00
1890-91	13,218 11	139,000 00
1891-92	18,934 20	206,000 00
1892-93	31,641 51	211,000 00
1893-94	40,169 35	215,000 00
1894-95	44,756 13	218,383 00
1895-96	66,199 73	228,053 00
1896-97	67,983 85	228,453 00
1897-98	99,058 20	232,153 00
1898-99	119,965 12	232,153 00
1899-00	147,096 65	247,153 00
1900-01	*197,844 33	256,047 73
1901-02	146,077 52	306,047 73
1902-03	159,958 09	322,447 73
1903-04	162,873 60	336,147 73

*This sum includes subscriptions to the Fund for the purchase of "The Tissot Collection of Pictures Illustrating the Life of Christ" amounting to \$53,000.

CONSTITUTION

ARTICLE I—MEMBERSHIP

SECTION I. The membership of the BROOKLYN INSTITUTE OF ARTS AND SCIENCES shall comprise HONORARY MEMBERS, FOUNDERS, BENEFACTORS, FELLOWS, PATRONS, PERMANENT MEMBERS, LIFE MEMBERS, CORRESPONDING MEMBERS AND ASSOCIATE MEMBERS.

SEC. II. HONORARY MEMBERS shall comprise those persons who have rendered distinguished and valuable service to man by their creations, contributions, discoveries or inventions in the Arts and Sciences. The number of Honorary Members shall be limited to fifty.

SEC. III. THE FOUNDERS OF THE INSTITUTE shall comprise those persons who subscribe to the funds of the Institute a sum not less than five hundred thousand dollars, or who present to the Institute sculptures, paintings, books, models, collections in science, apparatus or other property which shall be estimated by the Board of Trustees to be worth to the Institute not less than five hundred thousand dollars. So far as practicable the several Museums of the Corporation shall be dedicated to the Philanthropy of the FOUNDERS and shall bear their names.

SEC. IV. THE BENEFACTORS OF THE INSTITUTE shall comprise those persons who subscribe to the funds of the Institute a sum not less than one hundred thousand dollars and not exceeding five hundred thousand dollars, or who present to the Institute property which shall be estimated by the Board of Trustees to be worth to the Institute between one hundred thousand and five hundred thousand dollars. As far as practicable the several galleries of Arts and Sciences,

the Libraries, Observatories, or other well-defined portions of the property of the corporation shall be dedicated to the philanthropy of the BENEFACTORS, and shall bear their names.

SEC. V. THE FELLOWS OF THE INSTITUTE shall comprise those Associate Members of the Institute who have rendered distinguished and valuable services to man, either by their productions, contributions, discoveries or inventions in the Arts and Sciences, or by their long and eminent services as teachers of Art or Science.

SEC. VI. THE PATRONS OF THE INSTITUTE shall comprise those persons who subscribe to the funds of the Institute a sum not less than ten thousand and not exceeding one hundred thousand dollars, or who present to the Institute property which shall be estimated by the Board of Trustees to be worth to the Institute not less than ten thousand nor more than one hundred thousand dollars. As far as practicable the property given by the PATRONS shall be so arranged as to testify to their philanthropy.

SEC. VII. THE PERMANENT MEMBERS OF THE INSTITUTE shall comprise those persons who contribute to the Institute funds a sum not less than one thousand nor more than ten thousand dollars, or who present to the Institute in any one year property which shall be estimated by the Board of Trustees to be worth to the Institute not less than one thousand nor more than ten thousand dollars. Permanent Members shall be entitled to transfer their memberships respectively by will or by other legal process.

SEC. VIII. LIFE MEMBERS OF THE INSTITUTE shall comprise those persons who contribute to the funds of the Institute a sum not less than one hundred nor more than one thousand dollars, or who present to the Institute at any one

time property which shall be estimated by the Board of Trustees to be worth to the Institute not less than one hundred nor more than one thousand dollars.

SEC. IX. THE CORRESPONDING MEMBERS OF THE INSTITUTE shall comprise those persons whose knowledge in the arts and sciences qualifies them to contribute special and valuable information to the proceedings of the Institute or of its several departments, and who do not reside within a radius of twenty miles of the City of Brooklyn.

SEC. X. THE ASSOCIATE MEMBERS OF THE INSTITUTE shall comprise persons who are specially interested in one or more of the Arts or Sciences. The Founders, Benefactors, Patrons, Permanent Members and Life Members of the Institute shall be regarded as Associate Members, and shall not be subject to the payment of any fees or dues. All other Associate Members shall contribute to the funds of the Institute an Initiation Fee of five dollars and Annual Dues of five dollars, payable in advance. An Associate Member shall be entitled, without additional expense, to become a member of as many departments of the Institute as he may elect, to attend all the lectures and meetings of the Institute and of its several departments, and to enjoy all the privileges for education afforded by the Museums, Lectures, Libraries and other appointments of the Institute, with the exception of the instruction given in the several Schools conducted by the Departments—the Concerts, Dramatic Readings, Special Meetings authorized by the Council, and the Institute Extension Courses of Lectures—for which a special fee for admission may be charged.

SEC. XI. The Founders, Benefactors, Patrons, Permanent Members and Life Members of the Institute shall also be known as the CORPORATE MEMBERS OF THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES. Each Corporate Member shall be entitled to vote in the election of Trustees of the

Institute, and shall be eligible to election as a member of the Board of Trustees. The Corporate powers of the Institute shall be vested in the Corporate Members. Twenty-five Corporate Members shall constitute a quorum for the transaction of business.

SEC. XII. Honorary Members, Fellows, Corresponding Members and Associate Members shall be nominated by the Council of the Institute and elected by the Board of Trustees. A two-thirds vote shall be necessary for the nomination and election of persons to the classes of membership named in this section.

SEC. XIII. The Board of Trustees shall have power to admit any institution and its members, on such terms as the Board shall deem just and proper.

ARTICLE II—BOARD OF TRUSTEES

SECTION I. The Board of Trustees shall comprise fifty Corporate Members of the Institute. The Trustees named in the Act of Incorporation shall divide their number into five classes to be drawn by lot. The first class shall hold office for one year, the second class for two years, the third class for three years, the fourth class for four years, and the fifth class for five years, succeeding the second Friday in May, 1890. On the second Monday in January of each year ten Trustees shall be elected, who shall hold office for five years, from the second Friday of the May following, or until their successors are elected. The polls shall be open from five to nine o'clock P. M. on the day of election.

SEC. II. The officers of the Board shall be a President, three Vice-Presidents, a Treasurer, and a Secretary. They shall be elected by the Board of Trustees, on the second Friday in May, each year, and shall hold office for one year, or until their successors are elected.

SEC. III. The Board of Trustees shall have power to fill vacancies in the Board or its offices, and to declare the seat of any member vacated who shall have failed to attend three successive meetings of the Board, unless written excuse satisfactory to the Board shall have been presented.

SEC. IV. The regular meetings of the Board shall be held on the second Friday of each month, except the months of July, August and September, at such hour as the Board from time to time may appoint, written notices for which shall be mailed to each member.

- SEC. V. It shall be the duty of the President to preside at the meetings of the Trustees, the Corporation and the Institute, and to present to the Trustees an Annual Report at the regular meeting in May. In the absence of the President, the first Vice-President in order, who is present, shall act in the place of the President.

SEC. VI. It shall be the duty of the Treasurer to take charge of the seal, money, funds and securities of the Association; to collect all accounts and sums of money due and payable to the Institute; to pay all bills and accounts when duly audited; to keep a record of all the financial transactions of the Institute, and to report the same to the Board of Trustees as often as required.

SEC. VII. The Board of Trustees shall elect a Director, who, subject to the direction of said Board, and the several Committees of the Board, shall have charge of the Museums and Libraries of the Corporation; shall execute the wishes of the Board and of its several Committees; shall have general charge and supervision of the educational work of the Institute; shall labor for the best interests of the corporation and report to the Board as often as it shall require concerning the work and needs of the Institute.

SEC. VIII. It shall be the duty of the Secretary to make and keep a record of the proceedings of the Board of Trustees; to send notices of all meetings of the Board; to notify all persons of their election as Trustees and officers, and to make an Annual Report to the Trustees in the month of May on the progress of the Institute.

SEC. IX. The Secretary shall call special meetings of the Board at the written request of the President, or of any ten Trustees.

SEC. X. All elections shall be by ballot. A majority of the votes cast shall be necessary to an election.

ARTICLE III—COMMITTEES OF THE CORPORATION

SECTION I. The President shall appoint annually in the month of May the following Standing Committees of five members each:

- 1 COMMITTEE OF WAYS AND MEANS
- 2 COMMITTEE ON ART MUSEUMS
- 3 COMMITTEE ON MUSEUMS OF SCIENCE
- 4 COMMITTEE ON ETHNOLOGY
- 5 COMMITTEE ON LIBRARIES
- 6 COMMITTEE ON LECTURES
- 7 COMMITTEE ON EDUCATION
- 8 COMMITTEE ON MUSIC
- 9 COMMITTEE ON BOTANIC GARDEN AND ARBORETUM
- 10 COMMITTEE ON MEMBERSHIP

The President and Treasurer shall be *ex-officio* members of each of the Standing Committees.

SEC. II. The President, Treasurer and Secretary of the Board, together with the Chairmen of the Standing Committees, shall constitute the EXECUTIVE COMMITTEE of the Board of Trustees. The President and Secretary of said Board shall be respectively President and Secretary of the Executive Committee.

SEC. III. The EXECUTIVE COMMITTEE shall, under the direction of the Board of Trustees, have the general care of the Institute Buildings, make necessary repairs, regulate the use of the buildings and the collections by the public, shall have charge of making all contracts on behalf of the Board of Trustees; shall have power to audit all bills against the Institute, and, in general, execute the will of the Board in all matters not specially delegated to other committees or persons. During the months of June, July, August and September, when the Board of Trustees has no regular sessions, the Executive Committee shall have authority, in such manner as it shall determine, to act on behalf of the Board of Trustees.

SEC. IV. The COMMITTEE OF WAYS AND MEANS shall, under the direction of the Board of Trustees, have charge of the collection, increase and investment of the endowment and permanent funds of the Institute, and shall have general charge of the financial interest of the Corporation.

SEC. V. The COMMITTEE ON ART MUSEUMS, under the direction of the Board of Trustees, shall have the general charge of the art collections of the Institute and the exhibition of the same; shall effect the purchase, loan or sale of all works of art on behalf of the Institute; and, in general, shall endeavor to increase and improve the art collections of the Corporation.

SEC. VI. The COMMITTEE ON MUSEUMS OF SCIENCE, under the direction of the Board of Trustees, shall have general charge of the scientific collections of the Museums and their exhibition; shall effect the purchase, loan or sale of all collections illustrating the sciences, on behalf of the Institute; and, in general, shall endeavor to increase and improve the collections and the facilities of the Institute for scientific research.

SEC. VII. The COMMITTEE ON ETHNOLOGY, under the direction of the Board of Trustees, shall have general charge of the ethnological collections of the Museum and their exhibition; shall endeavor to increase and improve the collections in Ethnology, and provide facilities for ethnological research.

SEC. VIII. The COMMITTEE ON LIBRARIES, under the direction of the Board of Trustees, shall have general charge of the Libraries of the Institute and their arrangement and use; shall effect the purchase, loan or sale of all books, pamphlets or other materials properly belonging to the libraries, on behalf of the Corporation; and, in general, shall endeavor to increase and improve the Libraries of the Institute, and their usefulness to all who have access to them.

SEC. IX. The COMMITTEE ON LECTURES, under the direction of the Board of Trustees, shall have general charge of the courses of lectures given under the auspices of the Institute.

SEC. X. The COMMITTEE ON EDUCATION, under the direction of the Board of Trustees, shall have general charge of the work undertaken by the Institute for the benefit of those citizens, schools and higher institutions of learning in the city that seek to avail themselves of the opportunities afforded by the Institute for systematic instruction, investigation, production, or research.

SEC. XI. The COMMITTEE ON MUSIC, under the direction of the Board of Trustees, shall have general supervision of the concerts and musical instruction given under the auspices of the Institute.

SEC. XII. The COMMITTEE ON BOTANIC GARDEN AND ARBORETUM, under the direction of the Board of Trustees, shall have general supervision of the grounds adjacent to the Museum Building and of any Botanic Garden or Arboretum that may be located on such lands.

SEC. XIII. The COMMITTEE ON MEMBERSHIP, under the direction of the Board of Trustees, shall have charge of the admission of members, and the general increase of the membership of the Institute.

SEC. XIV. The Committees named in this article shall make a report to the Board of Trustees at each regular meeting.

ARTICLE IV —THE ASSOCIATE MEMBERS

SECTION I. The active educational work of the Institute in the Arts and Sciences shall be conducted by the GENERAL BODY OF ASSOCIATE MEMBERS, and the several Departments organized by them, under the authority of the Trustees.

SEC. II. The officers of the General Body of Associate Members shall be a President, a Vice-President from each Department, a Treasurer, and a Secretary. The foregoing officers, together with the President of the Board of Trustees and the Director of the Institute, shall constitute the Council of the Institute.

SEC. III. The following Departments composed of the Associate Members of the Institute may be formed: ANTHROPOLOGY, ARCHÆOLOGY, ARCHITECTURE, ASTRONOMY, BOTANY, CHEMISTRY, DOMESTIC SCIENCE, ELECTRICITY, ENGINEERING, ENTOMOLOGY, ETHNOLOGY, FINE ARTS, GEOGRAPHY, GEOLOGY, LAW, MATHEMATICS, MICROSCOPY, MINERALOGY, MUSIC, PAINTING, PEDAGOGY, PHILOLOGY, PHILOSOPHY, PHOTOGRAPHY, PHYSICS, POLITICAL SCIENCE, PSYCHOLOGY, SCULPTURE and ZOÖLOGY.

SEC. IV. The officers of each Department shall be a President, a Vice-President, and a Secretary. Such addi-

tional officers, constitution, by-laws or rules and regulations as are required by any Department in the accomplishment of its work, and are not provided by the general organization of the Institute, shall be provided by the Department itself. The President of a Department shall be a Vice-President of the General Body of Associate Members.

SEC. V. The Annual Meeting of the Associate Members shall be held on the Tuesday following the first Saturday in May. The Annual Meetings of the various Departments of Associate Members shall be held in April. All other meetings of the Departments shall be arranged by the Departments themselves.

SEC. VI. The regular meetings of the Council shall be on the first Monday in each month, omitting July, August and September. The regular meeting in May shall also be the Annual Meeting of the Council. At its Annual Meeting the Council shall elect its President, Treasurer and Secretary, who shall be also respectively the President, Treasurer and Secretary of the Associate Members.

SEC. VII. It shall be one of the duties of the President of the Associate Members to present at their Annual Meeting, or at the close of his term of office, an address, which shall include a review of the present condition of some Department of the Arts and Sciences. This address shall be incorporated in the proceedings of the Institute.

SEC. VIII. The Council shall recommend to the Board of Trustees measures that will facilitate the general work of the Institute and of its various Departments in the Arts and Sciences, and shall have the direction of the general work of the body of Associate Members.

SEC. IX. The Council shall appoint at its regular meeting in May the following Standing Committees of five members each:

- 1 COMMITTEE ON LECTURES AND MEETINGS
- 2 COMMITTEE ON PUBLICATIONS
- 3 COMMITTEE ON MEMBERSHIP
- 4 COMMITTEE ON APPARATUS
- 5 COMMITTEE ON SCIENTIFIC WORK
- 6 COMMITTEE ON THE ARTS

The President and Secretary of the Council shall be *ex-officio* members of the Standing Committees.

SEC. X. Propositions for Associate Membership and Corresponding Membership shall be presented to the Council. Persons already Associate Members or Corresponding Members may be elected members of any Department by the Department itself. The President of the Board of Trustees, the Director of the Institute, and the President and Secretary of the Associate Members, shall be *ex-officio* members of each Department of the Institute.

SEC. XI. It shall be the duty of each Department of Associate Members to make an annual report in the month of May to the Board of Trustees and to the Council of Associate Members on the work, the needs, the membership, and the attendance of the Department.

ARTICLE V—COLLECTIONS AND FUNDS.

SECTION I. The Board of Trustees shall empower the Departments of the Institute to make, classify, preserve and exhibit the collections in the Departments of the Arts and Sciences belonging to their respective branches. Collections shall be admitted to the Museum and Libraries when they shall have been approved by a Committee of Experts appointed by the Department or Departments immediately concerned, and when approved by the Board of Trustees.

SEC. II. The Annual Dues received from the Associate Members shall be apportioned by the Trustees, on recommendation of the Council, among the various Departments of Associate Members, due regard being had for the number of members, the average attendance, the amount and character of the work done, and the needs of each Department. All other moneys received by the Institute shall be placed to the credit of the General Fund of the Institute, unless otherwise designated by the Board of Trustees, or by the person or estate from which they are received.

ARTICLE VI—AMENDMENTS

This Constitution may be amended by the concurrent vote of the Board of Trustees and the Council, at regular meetings of the same, provided written notice of the proposed amendment is mailed to each member of the respective bodies at least four days before their respective meetings.

THE BY-LAWS

OF

THE BOARD OF TRUSTEES

SECTION I. The Order of Business at the meetings of the Board of Trustees shall be as follows:

- 1** Reading of Minutes
- 2** Communications
- 3** Report of Treasurer
- 4** Report of Director
- 5** Report of Executive Committee
- 6** Report of Standing Committees
- 7** Report of Special Committees
- 8** Election of Officers or Members
- 9** Unfinished Business
- 10** Motions and Miscellaneous Business

This order may be suspended by vote of the Board at any meeting.

SEC. II. All bills against the Institute, whether for its educational work or for its Museums, shall be contracted only under the authority of the Board, and shall be presented to the Executive Committee to be audited. Whenever any bill against the Institute has been so audited, the Treasurer is authorized to pay the same.

SEC. III. The Treasurer shall make a monthly report of the finances of the Institute, and an annual report at the regular meeting in May.

SEC. IV. The Board of Trustees may elect an auditor, to hold office during the pleasure of the Board, whose duty it

shall be to audit the accounts of the Treasurer, and who shall report thereon from time to time as the Treasurer may require or as the Executive Committee may direct. The compensation to be paid such auditor shall be fixed by the Executive Committee subject to the approval of the Board of Trustees.

SEC. V. The Director shall present a report of the work done by the Institute in each succeeding month, and an annual report of the work of the Institute at the regular meeting of the Board in the month of May.

SEC. VI. The Executive Committee shall present monthly reports at the regular meetings of the Board, and shall present an annual report at the regular meeting in May.

SEC. VII. The President, Treasurer, Director and Secretary may incur petty expenses in the discharge of their duties, the sum of which shall not exceed One Hundred Dollars, in each case, in any given month.

SEC. VIII. The Director shall give as much of his time to the Institute and its interests as the Board of Trustees shall demand, and shall receive compensation therefor. The compensation shall be fixed each year by the Trustees.

SEC. IX. These By-Laws may be amended at any regular meeting of the Board, provided notice of the proposed amendments is mailed to each member of the Board, at least four days previous to the meeting.

WORK OF THE YEAR

1903-1904

I—THE FIRST GENERAL MEETING AND ADDRESS

The Institute held its First General Meeting for the year 1903-1904 on Wednesday evening, November 4, in Association Hall. The Rev. EDWARD EVERETT HALE, D.D., LL.D., Chaplain of the Senate of the United States, delivered an address on "The Fundamental Politics of the American Constitution."

II—THE HERBERT SPENCER MEMORIAL MEETING

The meeting in memory of the late HERBERT SPENCER was held in Association Hall on the evening of Tuesday, May 10. The Memorial Address was delivered by President JACOB G. SCHURMAN, LL.D., of Cornell University. The Rev. ALBERT J. LYMAN, D.D., presided and made the opening address.

III—THE GRAHAM FOUNDATION LECTURES

In presenting to the INSTITUTE its first Endowment Fund, Mr. AUGUSTUS GRAHAM stipulated that the income of a portion of the fund should be used in providing, from time to time, courses of Sunday evening lectures on "The Power, Wisdom, and Goodness of God as Manifested in His Works."

The Graham Foundation Lectures for the past year were delivered by President WILLIAM DE WITT HYDE, D.D., LL.D., of Bowdoin College, as follows:

Jan. 6—"The Epicurean Ideal" (Tito Melema).

Jan. 10—"The Stoic Ideal."

Jan. 17—"The Platonic Ideal" (Plato).

Jan. 24—"The Aristotelian Ideal" (Benjamin Franklin).

Jan. 31—"The Christian Ideal" (Lincoln and Browning).

These addresses presented five great historic ideals as illustrated in historic types of personality.

IV—GENERAL EXHIBITIONS BY THE DEPARTMENTS

1. The LOAN EXHIBITIONS OF PAINTINGS AND OTHER WORKS OF ART were continued throughout the year in the Galleries on the third floor of the Museum Building in conjunction with the permanent exhibition of the Institute Collections of Paintings and other works of Art.

2. The TISSOT COLLECTION OF PAINTINGS, illustrating the Life of Christ, is on permanent exhibition in two of the galleries on the third floor of the Museum Building, and is open to the public at the same hours as the Museum.

3. The DEPARTMENT OF MICROSCOPY gave its SEVENTEENTH ANNUAL EXHIBITION at the Art Galleries in Montague Street on Saturday evening, February 13, from 8 until 11 o'clock. Forty-four microscopes were in use during the evening. An account of the Exhibition may be found under the Department of Microscopy.

4. The DEPARTMENT OF PHOTOGRAPHY gave its FOURTEENTH ANNUAL EXHIBITION OF PHOTOGRAPHIC PRINTS AND PHOTOGRAPHIC APPARATUS in the Art Galleries in Montague Street, from Saturday, April 23, to Saturday, April 30, inclusive. A catalogue of the exhibition was printed containing two hundred and forty-five entries. A full account of the Exhibition will be found under the Department of Photography.

The main collections of the DEPARTMENTS OF ARCHÆOLOGY, ARCHITECTURE, BOTANY, CHEMISTRY, ENTOMOLOGY,

ETHNOLOGY, GEOGRAPHY, GEOLOGY, MINERALOGY, SCULPTURE and ZOÖLOGY are on permanent exhibition at the New Museum Building on Prospect Hill, and are open and free to the public from 9 A. M. to 6 P. M. on Wednesday, Thursday, Friday and Saturday of each week, and on all legal holidays except Sunday; also on Thursday evenings of each week from 7.30 to 9.45 P. M., and on Sunday afternoons from 2.00 to 6.00 o'clock. The collections are open to the public on Mondays and Tuesdays of each week, from 9 A. M. until 6 P. M., by the payment of twenty-five cents for adults and ten cents for children under sixteen years.

WORK OF THE DEPARTMENTS

DEPARTMENT OF ARCHÆOLOGY

Officers

Prof. WILLIAM H. GOODYEAR, M.A.	<i>President</i>
Prof. THOMAS FLINT, M.A.	<i>Vice-President</i>
STANSBURY HAGAR, B.A.	<i>Secretary</i>

Executive Committee

Prof. WM. H. GOODYEAR, M.A.	JOSEPH H. HUNT, M.D.
Prof. FREDERIC W. OSBORN, M.A.	GEORGE N. OLCOTT, B.A.
BARR FERREE, M.A.	STANSBURY HAGAR, B.A.
Prof. THOMAS FLINT, M.A.	MISS LOUISE BOTH-HENDRIKSEN
FRANK SHERMAN BENSON, B.A.	ALBERT A. HOPKINS
Prof. GEORGE M. WHICHER, M.A.	Prof. FRANK A. GALLUP, Ph.D.

The Department was organized on May 8, 1889, with twenty-four members. The present membership is one hundred and forty-four. The lectures delivered have been as follows, each lecture being illustrated by lantern photographs:

Jan. 27—Lecture by Mr. HARLAN I. SMITH, Assistant Curator, American Museum of Natural History, on "Recent Discoveries in Archæology in the Northwest."

Jan. 28—Lecture by Mr. ADOLPHE F. BANDELIER, of the American Museum of Natural History, on "Peruvian Archæology."

Mar. 17—Lecture by Prof. MARSHALL H. SAVILLE, Curator of Mexican and Central American Archæology, American Museum, on "The Monuments of Ancient Civilized Races in Southern Mexico."

Two lectures by Prof. RUFUS B. RICHARDSON, late of the Classical School at Athens.

I. *May 19*—"The Excavations at Corinth."

II. *May 26*—"The Seven Churches of Asia Minor."

A Series of Six Conferences on "Classical Archæology," conducted by Prof. FRANK A. GALLUP, Ph.D., of the Packer Institute, on Friday afternoons, beginning November 13. These conferences were held in conjunction with the classical section of the Department of Philology, under which they are fully described.

The Collections of the Department have been considerably enlarged during the past year. The collections on exhibition in the Museum include the WILLIAM WALLACE TOOKER Collection of Indian Relics of Long Island; the GEORGE F. KUNZ Collection of Relics from the Mississippi Valley; the WARD Collection of Models of Pueblos and Cliff Dwellings; the FREDERICK W. STARR Collection of Models of Portrait Busts of Pueblo Indians and of Pueblo Sculptures; the CHARLES A. SCHIEREN Collection of Pottery from the Cliff Dwellings and from Peru; the FRANKLIN W. HOOPER Collection of Swiss Lake Dwelling Relics; the CLARENCE W. RIGGS Collection of Pueblo Pottery, and the Collection of electrotpe reproductions of the British Museum Collection of Greek Coins. The Department also has on exhibition the following loan collections: (1) The FRANK SHERMAN BENSON Collection of Greek Coins; (2) The RUSSELL STURGIS, 2d, Ethnological Collection from the

Pacific Islands, and (3) the STANSBURY HAGAR Collection of Indian Relics.

The WILLIAM WALLACE TOOKER Collection, presented by several citizens of Brooklyn, is very large and complete, comprising upwards of fifteen thousand specimens, representing the handiwork of the Indians of Long Island, and and comprising stone axes and adzes, stone chisels and gouges, stone mortars and pestles, stone hatchets and arrow heads, stone mills and mauls, stone amulets and carved figures of birds, animals and man; bone implements of many kinds, stone sinkers and anchors, an oar carved in oak; wooden mortars; stone, bone and horn knives and scrapers; many implements of pottery and several complete burial urns (restored); many pieces of wampum and fragments of shells, together with bones of domestic and wild animals, and fragments of the skeleton of the Indian. The collection forms as complete a basis of knowledge of the prehistoric inhabitants of Long Island as has been secured of the prehistoric peoples of any other portion of our country east of the Allegheny mountains.

DEPARTMENT OF ARCHITECTURE

J. MONROE HEWLETT

HENRY M. CONGDON

WOODRUFF LEEMING, B.S.

President

Vice-President

Secretary

Executive Committee

J. MONROE HEWLETT

RUDOLPHE L. DAUS

Prof. A. D. F. HAMLIN, M.A

WOODRUFF LEEMING, B.S

GEORGE L. MORSE

AUSTIN W. LORD

STEPHEN W. DODGE

PETER I. COLLINS

ARNE DELHI

WILLIAM B. TUBBY

HENRY M. CONGDON

Committee on Current Work

ARNE DEHLI

FRANK H. QUIMBY

ALBERT A. HOPKINS, B.A.

Committee on Museum

AUSTIN W. LORD

CHARLES F. MCKIM

Prof. WILLIAM H. GOODYEAR, M.A.

Committee on Competitions and Awards

Prof. A. D. F. HAMLIN

Rev. WILLIAM H. INGERSOLL

ADAM E. FISCHER

Committee on Public Works

WILLIAM B. TUBBY

RUDOLPHE L. DAUS

GEORGE M. LAWTON

Committee on Social Intercourse

STEPHEN W. DODGE

PETER I. COLLINS

ANDREW G. THOMSON

Committee on Finance and Audit

PETER I. COLLINS

GEORGE T. MORSE

A. MILTON NAPIER

The Department of Architecture was organized on December 13, 1889, with a membership of one hundred and eight. The present membership is two hundred and forty-three. The meetings of the Department are held, as far as practicable, on the second Wednesday evening of each month. The lectures during the past season were as follows and were in conjunction with the Department of Fine Arts:

A course of twelve illustrated lectures on "The Brooklyn Institute Surveys of 1903 at Constantinople and in Northern France" by Prof. WILLIAM H. GOODYEAR, M.A., Museum Curator of Fine Arts, and President of the Department of Fine Arts, on Saturday afternoons at 3 o'clock at the Museum Building, as follows:

Nov. 21—"Constantinople. Panoramas and Antiquities."

Nov. 28—"The Mosques of Constantinople."

Dec. 5—"St. Sophia and the Other Byzantine Churches of Constantinople."

Dec. 12—"St. Sophia and the Other Byzantine Churches of Constantinople" (continued).

Jan. 9—"The Mosques of Constantinople."

Jan. 16—"The Churches and Cathedrals of Chalons, Reims, Laon, and Noyon."

Jan. 23—"The Church of St. Quentin and the Cathedral of Amiens."

Jan. 30—"The Cathedral of Notre Dame at Paris: The Nave and Façade."

Feb. 6—"The Cathedral of Notre Dame at Paris: The Galleries."

Feb. 13—"The Churches and Cathedrals of Chartres, Beauvais, Rouen, Caen and Poitiers."

Feb. 27—"The Churches and Cathedrals of Chartres, Beauvais, Rouen, Caen and Poitiers" (continued).

Mar. 22—"The Discovery of Vertical Curves and Other Architectural Refinements in the Gothic Cathedrals of Northern France."

The Standing Committees of the Department on CURRENT WORK, MUSEUM AND LIBRARY, COMPETITIONS AND AWARDS, and on PUBLIC WORKS meet to discuss subjects relating to their special lines of work.

The COMMITTEE ON MUSEUM AND LIBRARY has advisory power in the selection of Collections representing the History of Architecture for the new Museum Building, and makes its recommendations to the Council and Board of Trustees.

THE EXHIBITION OF THE COLLECTION OF ENLARGED PHOTOGRAPHS OF ANCIENT AND MEDÆVAL ITALIAN ARCHITECTURE AND SCULPTURE, made by Prof. WILLIAM H. GOOD-YEAR, M.A., with the assistance of Mr. JOHN W. McKECKNIE, of New York, in 1895, was continued on the walls of the hallways in the new Museum Building. This collection comprises some two hundred and twenty photographs, many of which illustrate asymmetry in architecture. Enlarged photographs from the Italian Survey of 1901 and from the

French Survey of 1903, were added to this collection during 1903-1904.

THE COLLECTION OF PHOTOGRAPHS OF ARCHITECTURAL SUBJECTS, comprising upwards of four thousand pictures, has been mounted on cardboards, labeled and arranged in portfolio cabinets for reference by students in Architecture.

THE ART GALLERIES on the first or main floor of the new Museum Building are designed to contain collections illustrating the history of Greek and Roman Architecture and Sculpture. The largest of these galleries is 110x38 feet; the second is 42x42 feet; the remaining two are 16x40 feet. The work of making these collections is a most important one, and commands the interest and co-operation of every friend of Art Education and of every Member of the Institute who is a lover of Classic Art.

An excellent beginning was made during the season of 1897-8 in the Collections of Casts in Sculpture and Architecture, under the supervision of Mr. GEORGE C. BRACKETT, Member of the Department and of the Board of Trustees. The completion of the second section of the Museum Building has made room for other additions.

DEPARTMENT OF ASTRONOMY

GARRETT P. SERVISS, B.A.	<i>President</i>
Rev. FREDERICK CAMPBELL, D.Sc.	<i>Vice-President</i>
ALBERT J. BROOKS	<i>Secretary</i>
B. G. WAY	<i>Librarian</i>

Executive Committee

GARRETT P. SERVISS, B.A.	Miss MARY M. HOPKINS
HENRY M. PARKHURST	B. G. WAY
STANBURY HAGAR, B.A.	Miss SADIE F. MOTTS
Rev. FREDERICK CAMPBELL, D.Sc.	ALBERT J. BROOKS
Prof. WILLIAM C. PECKHAM, M.A.	

The Department was organized on May 10, 1888, by the Members of the American Astronomical Society residing in

New York, Brooklyn and the neighboring towns, and began its work as a Department with thirty-two members. The present membership is two hundred and sixty-five.

The public meetings of the Department were held, as far as practicable, on the first Wednesday evening of each month. The proceedings at the meetings during the season have been as follows:

I. A Course of Five Illustrated Lectures on "The Solar System in the Light of Recent Discoveries and Theories" by S. ALFRED MITCHELL, Ph.D., of Columbia University, on Wednesday evenings, as follows:

Mar. 30—"Comets and the New Light Theory of Comets' Tails."

Apr. 6—"The Sun and the Newest Observations of Our Sun's Atmosphere."

Apr. 13—"The Sun's Destination and his Path Through the Heavens."

Apr. 20—"The Evolution of the Solar System by Equilibrium, and Recent Discoveries by Darwin and Poincaré."

Apr. 27—"The Inside Working of an Astronomical Observatory and the Sounding of the Depth of the Stellar Space."

II. A Course of Four Illustrated Lectures on "The Moon," by Rev. FREDERICK CAMPBELL, D.Sc., Vice-President of the Department, as follows:

May 13—"The Moon Coursing the Heavens."

May 20—"The Scenery of the Moon."

May 23—"The Moon as a Place of Residence."

May 27—"The Moon in Solar and Lunar Eclipses."

A Conference was held after each lecture.

III. The above lectures were given in the Art Building. Mr. CAMPBELL delivered the same course also in All Souls

Church in the eastern district on the evenings of May 5, 19 and 26.

IV. The following single illustrated Lectures were also delivered:

Dec. 2—Lecture by Mr. GARRETT P. SERVISS, B.A., President of the Department, on "The Spectroscope and Some of the Recent Astronomical Discoveries made Therewith."

Feb. 3—Lecture by Mr. GARRETT P. SERVISS, B.A., President of the Department, on "The Latest News About Other Planets."

A MAGAZINE CLUB has been successfully conducted during the year under the guidance of Miss MARY A. HOPKINS, Chairman of the Library Committee of the Department. By this means a number of the members of the Department were provided with the leading Astronomical journals.

Mr. CHARLES LEMBKE, of New York, a Member of the Institute, presented to the Institute in the month of June, 1896, a telescope for the use of the Department of Astronomy. The telescope has an aperture of 8 inches. and a focal length of 110 inches. The object glass was made by Mr. JOHN BYRNE, and is of a very high quality. The tube of the telescope is of steel, and was turned out by Messrs. WARNER & SWAZEY, of Cleveland, Ohio. The instrument is presented on condition that a suitable observatory room and a proper pillar and equatorial mounting shall be provided in connection with the Museum Building on Prospect Heights.

Through the bequest of the late WILLIAM F. SEBERT, for many years an officer and an active member of the Department, were received in June, 1904, two telescopes, well mounted on tripods, several telescopic attachments and a number of works on astronomy all of which will be valuable to the Department. An inventory of this valuable appa-

ratus and a list of the more important astronomical works received from the estate of Mr. SEBERT will be published in the next Year Book.

The Department has a very valuable library of works on Astronomy, numbering upwards of five hundred volumes.

DEPARTMENT OF BOTANY

Prof. HENRY E. CHAPIN, Ph.D.

President

Miss IDA M. CLENDENIN

Vice-President

Mr. F. A. REXFORD

Secretary

Executive Committee

Prof. HENRY E. CHAPIN, Ph.D.

Miss IDA M. CLENDENIN

Mr. F. A. REXFORD

Mrs. LOWELL M. PALMER

Hon. FRANK JULIAN PRICE

Miss ANNA B. GALLUP, B.S.

Miss GRACE E. BEARD

Mr. LOUIS HARMAN PEET

Miss M. A. YOUNG

Mr. CHARLES WILLIS WARD

This Department was organized December 13, 1888, with twenty-one members. The present membership is three hundred and thirty-five. The regular meetings of the Department are held on the third Wednesday evening of each month.

The lectures given during the season, all illustrated by lantern photographs, have been as follows:

I. Oct. 21—Lecture by Mr. J. HORACE MCFARLAND, of Harrisburg, Pa., on "Flowers and Trees in Their Haunts."

Nov. 18—Lecture by LUCIEN M. UNDERWOOD, Ph.D., of Columbia University, on "The Ferns of the West Indies."

Dec. 16—Lecture by MARSHALL A. HOWE, Ph.D., of the New York Botanical Garden, on "Plant Life of the Sea, with Special Reference to the Algae of the East and West Coasts of the United States," illustrated by lantern photographs, a number of which were prepared by the late CORNELIUS VAN BRUNT.

Feb. 17—Lecture by Prof. FRANCIS E. LLOYD, of Teachers College, on "A Comparison of the Vegetation of the Arctic Region and Mountain Tops."

Mar. 16—Lecture by Prof. HERBERT W. CONN, Ph.D., of Wesleyan University, on "The Common Moulds."

Apr. 26—Lecture by Mr. CHARLES A. HATHAWAY, of Taunton, Mass., on "Wild Flowers of the Woods and Waters of New England."

May 24—Lecture by Mr. CHARLES LOUIS POLLARD, in charge of the National Herbarium, Washington, D. C., on "The Preservation of the Wild Flowers."

II. MONTHLY CONFERENCES of the Department were held in the Museum, Eastern Parkway, on Thursday afternoons, as follows:

Dec. 3—"Vacation Experiences."

Jan. 7—"Fresh Water Algæ," illustrated by herbarium specimens and microscopic slides. Mrs. ISAAC HARRIS, leader.

Feb. 4—"Mosses," illustrated by herbarium specimens and lantern slides. Mrs. ISAAC HARRIS, leader.

Mar. 3—"Ferns," illustrated by herbarium specimens and microscopic slides. Mrs. CAROLINE A. CREEVEY, leader.

SPECIAL FIELD MEETINGS were held on Saturday afternoons, as follows:

Apr. 9—Excursion to Flushing. Guide, Dr. A. J. GROUT.

Apr. 16—Excursion to Forest Park. Guide, Mrs. G. W. CONKLIN.

Apr. 23—Excursion to Rosedale. Guide, Mrs. ISAAC HARRIS.

Apr. 30—Excursion to Jamaica. Guide, Mrs. I. C. HICKS.

III. THE BOTANICAL COLLECTIONS comprise upwards of 45,000 well mounted and well labeled specimens. It includes the large collection presented by Mr. WILLIAM CALVERLEY; the collection made by the late Rev. CHARLES H. HALL, D.D., LL.D., first President of the Department, and presented by Mrs. HALL to the Institute; the collection made by the late Rev. GEORGE D. HULST, Ph.D., and presented by Mrs. HULST to the Institute; the collection of MOSSES presented by Mrs. ANNIE MORRILL SMITH; with several smaller collections. The HERBARIUM has been transferred to cases in the Museum Building and arranged in systematic order.

Many additions were made to the Botanical Collections of the Institute Museums through the generosity of friends during the past year. It is expected that still other additions will be made during the coming year, and every practicable aid will be given to Members to increase and to improve their own private collections.

To the Museum Collections in Botany have been added by purchase thirty-two enlarged models in papier-maché, showing the structural and morphological characteristics of plants, and made by M. AUZOUX, M.D., of Paris, and to the Children's Museum forty-six similar models, made by M. DEYROLLE, of Paris. These models are dissectible and are most useful for exhibition purposes and in illustrating lectures on Botany. The additions to the collections in 1902-3 are enumerated under the account of the Museum.

IV. HALF HOUR TALKS ON BOTANY FOR YOUNG PEOPLE under Miss ANNA B. GALLUP, B.S., Assistant at the Children's Museum, were given during the year at the Children's Museum Building, Bedford Park, Brooklyn avenue.

DEPARTMENT OF CHEMISTRY

Prof. IRVING W. FAY, Ph.D.

President

Prof WM. J. HANCOCK, B.Sc.

Vice-President

JAMES H. PARK

*Secretary**Executive Committee*

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Prof. WILLIAM W. SHARE, Ph.D.

E. H. BARTLEY, M.D.

HERBERT B. BALDWIN

ROBERT G. ECCLES, M.D.

Prof. HENRY W. SCHIMPF, Ph.D.

WALTER H. KENT, Ph.D.

JAMES H. PARK

Prof. ALBERT C. HALE, Ph.D.

HARRY T. WEED, B.Sc.

J. C. OLSEN, Ph.D.

Prof. WILLIAM J. HANCOCK, B.Sc.

Prof. ALBERT W. AREY

Prof. CHARLES M. ALLEN

ALBERT H. STOCKER

Prof. B. M. JAQUISH

The Department of Chemistry was organized in November, 1888, with twenty-seven members. The present membership is two hundred and seven.

During the past year the Department, in conjunction with with the Department of Physics, provided the following courses of lectures:

I. A Course of Six Lectures by Prof. HARRY C. JONES, Ph.D., of Johns Hopkins University, on "Physical Chemistry," illustrated by experimental demonstrations, on Monday evenings, as follows:

Oct. 5—(This Course being a continuation of the introductory lectures given last season.) Subject: "Important Generalizations of Physical Chemistry—Theory of Electrolytic Dissociation; Faraday's Law the Basis of Valence."

Oct. 12—"Important Generalizations of Physical Chemistry—Law of Mass Action; Phase Rule."

Oct. 19—"Applications of Physical Generalizations to Inorganic Chemistry."

Oct. 26—"Applications of Physical Generalizations to Inorganic Chemistry." (Continued).

Nov. 2—"Applications of Physical Generalizations to Inorganic Chemistry." (Continued).

Nov. 9—"Application of Certain Physical Chemical Generalizations to Organic Chemistry."

II. A Course of Six Lectures by Prof. IRVING W. FAY, Ph.D., of the Polytechnic Institute, and President of the Department, on "The Coal-Tar Dyes," illustrated by practical demonstrations, on Monday evenings, as follows:

Apr. 11—"Constituents of Coal-tar. How the First Dye was Accidentally Discovered. Products of Coal-tar Used in the Color Industry. Benzine, Nitro-benzine, Aniline. Production of a Yellow Dye Used on Silk and Wool."

Apr. 18—"Evolution of Colors from Colorless Substances. Production of a Bluish-green Dye from Benzaldehyde and Dimethyl-aniline, both of which are colorless. Discussion of Fast and Fugitive Colors."

Apr. 25—"Structure of Dyestuffs. The Manufacture of Rosaniline, a Red Dye for Silk, Wool and Cotton. Conversion of a Red Dye to a Violet One. Poisonous and not Poisonous Methods of Manufacture for the Same Dye."

May 2—"Production of an Orange Dye, Helianthine. Its Use for Silk and Wool-dyeing. Discussion of this Class of Dyes."

May 9—"Eosines; the Dyes which Impart to Fabrics Effects Similar to the Brilliant Shades in the Sky at Dawn."

May 16—"Application of Dyes to Silk, Cotton and Wool. Use of Mordants. Difficulty in Dyeing Cotton in Comparison with the Relative Ease of Dyeing Silk and Wool."

III. THE COLLECTION OF CHEMICALS AND CHEMICAL APPARATUS belonging to the Department is in part at the Museum Building and in part in the Bedford Park Building. Additions to the Chemical Collection were made.

The Library of the Department contains upwards of five hundred volumes mostly of standard works of reference recently acquired.

DEPARTMENT OF DOMESTIC SCIENCE

Mrs. JOHN J. SCHOONHOVEN

President

Miss EMMA O. CONRO

Mrs. ANDREW JACOBS

Vice-Presidents

Mrs. FRANKLIN W. HOOPER

*Secretary**Executive Committee*

Mrs. JOHN J. SCHOONHOVEN

Mrs. JOHN KENDALL DUNN

Mrs. ANDREW JACOBS

Mrs. A. E. PALMER

Mrs. FRANKLIN W. HOOPER

Mrs. C. C. KNOWLTON

Mrs. MARA PRATT CHADWICK

Miss EMMA O. CONRO

Miss ELIZABETH REEVE

Miss FRANCIS SCHROEDER

This Department was organized on November 13, 1893, with a membership of forty-two. The present membership is one hundred and ninety-six. The purpose of the Department is the study of practical problems in Domestic Science. Standing Committees have been appointed on the following subjects:

- 1 The Sanitary and Economic Construction of Dwellings
- 2 The General Principles of House Furnishing
- 3 The Composition and Value of Foods
- 4 Cooking and Transformation of Foods
- 5 Labor Saving Methods and Utensils
- 6 Sanitation and Economy in Clothing
- 7 Domestic Service

The work of the Department during the past year was as follows:

I. A Course of Six Lectures on "The Child in the Home," on successive Wednesday afternoons, by Mrs. MARA PRATT CHADWICK, M.D., President of the Department, as follows:

Nov. 11—"Physical Conditions which Affect the Mentality of Children."

Nov. 18—"The Psychology of Habit in Children."

- Nov.* 25—"The Culture Epochs in Children."
Dec. 2—"The Child's Attitude Toward Sorrow."
Dec. 9—"The Child's Attitude Toward Punishment."
Dec. 16—"The Child's Attitude Toward Duty and Religion."

II. A Course of Six Lectures on "The Dining Room," illustrated by practical demonstrations, on successive Wednesday afternoons, by Miss HELEN LOUISE JOHNSON, of New York, as follows:

- Feb.* 3—"Breakfasts."
Feb. 10—"The Luncheon Service."
Feb. 17—"The Dinner Service."
Feb. 24—"Serving of Sunday Night Teas."
Mar. 2—"Our Grandmothers' Recipes."
Mar. 9—"Twentieth Century Housekeeping."

III. The following Monthly Conferences of the Department were also held on successive Thursday afternoons:

Oct. 15—"The Science of Color as Applied to Decorative Art," conducted by Miss LUELLA M. STEWART, of Syracuse, N. Y.

Nov. 19—"The Selection of Works of Art for House Decoration," conducted by Miss LOUISE BOTH-HENDRIKSEN.

Dec. 17—"A Good Library in Every Home," conducted by Miss ELIZABETH REEVE.

Jan. 21—"The Use and Abuse of Hospitality," conducted by Mrs. FRANKLIN W. HOOPER.

Mar. 17—"The School Life of Girls," conducted by Miss EMMA O. CONRO, of St. Catharine's Hall.

Apr. 21—"The Home Life of Girls," conducted by Mrs. FRANKLIN W. HOOPER.

IV. MUSEUM OF DOMESTIC SCIENCE AND ART. A beginning has been made of collections illustrating the Art and

the Science of the Household. Contributions to the collections will be accepted for the Museum on the recommendation of this Department.

DEPARTMENT OF ELECTRICITY

WILLIAM D. SARGENT	<i>President</i>
J. P. WINTRINGHAM	<i>Vice-Presidents</i>
HUBERT S. WYNKOOP, M.E. }	
FREDERICK V. HENSHAW	<i>Secretary</i>

Executive Committee

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WILLIAM S. BARSTOW, B.A.	J. C. REILLY
J. P. WINTRINGHAM	WILLIAM B. HALSEY
E. H. BARTLEY, M.D.	Prof. WM. W. SHARE, Ph.D.
FREDERICK V. HENSHAW	HENRY T. WEED, B.Sc.
WILLIAM C. BURLING	HORACE A. DWYER
FRANK W. CONN	CHARLES E. F. LEWIS
Prof. JOHN S. MCKAY, Ph.D.	GEORGE G. HOPKINS, M.D.
Prof. WM. C. PECKHAM, M.A.	NATHANIEL ROBINSON, M.D.
GEORGE W. HEBARD	L. A. W. ALLEMAN, M.D.
HUBERT S. WYNKOOP, M.E.	PETER SCOTT, M.D.
ROYAL C. PEABODY	C. K. BELDEN, M.D.

This Department was organized on March 21, 1890, with one hundred and thirty members. The present membership is two hundred and thirty-eight. The lectures during the season have been as follows:

I. May 18—Lecture by Prof. M. J. PUPIN, Ph.D., of Columbia University, on "Electric Resonance," illustrated.

II. A Course of Six Lectures on "The Electron Theory: Its Experimental Basis and Application to Physics and Chemistry," illustrated by experimental demonstrations, by Prof. ERNEST VON NARDROFF, D.Sc., of Erasmus Hall High School, on Monday evenings, beginning November 16. This course was given in conjunction with the Department of Physics, under which the subjects of the individual lectures are given.

III. A Course of Eight Lectures on "Recent Discoveries in Physical Science and their Relation to Theories of Matter and Energy," illustrated by practical demonstrations, by Prof. JOHN S. MCKAY, Ph.D., President of the Department of Physics, on Saturday afternoons, beginning September 26. This course was given in conjunction with the Department of Physics, under which the subjects of the individual lectures are given.

THE COLLECTION OF ELECTRICAL APPARATUS belonging to the Department has been transferred to the new Museum Building and important additions have been made to it during the past two years. The Library of the Department has been placed with the Collection for reference.

DEPARTMENT OF ENGINEERING

O. F. NICHOLS, C.E.

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The organization of the Department of Engineering was effected on March 12, 1889, with thirty-six members. The present membership is one hundred and fifty. The regular meetings during the past season have been as follows:

Feb. 26—Lecture by EDWARD WEGMAN, C.E., of Kato-
nah, N. Y., on "Roman Aqueducts."

Nov. 27—Lecture by the Hon. WILLIAM C. REDFIELD,
Commissioner of Public Works, Brooklyn, on "Public Im-
provements in the Borough of Brooklyn."

Jan. 22—Lecture by Mr. RUDOLPH HERING, C.E., of the
New York City Commission on Additional Water Supply,
on "The Supply of Additional Water to New York City."

Mar. 24—Lecture by Hon. JOHN MCGAW WOODBURY,
Commissioner, Department of Street Cleaning, New York,
on "The Utilization of City Wastes."

Apr. 19—Lecture by O. F. NICHOLS, Chief Engineer of
the Department of Bridges of the City of New York, Presi-
dent of the Department, on "Bridges over the East River."

Each lecture was illustrated by lantern photographs.

Mrs. CHARLES E. EMERY has presented to the Department
the entire library of her husband, the late CHARLES E.
EMERY, Ph.D., for seven years President of the Department.
The library consists of five hundred and five bound volumes,
about two thousand pamphlets, and many numbers of un-
bound periodicals.

The Library of the Department is permanently installed
in the Central Museum Building.

DEPARTMENT OF ENTOMOLOGY

EDWARD L. GRAEF

RICHARD F. PEARSALL

ARCHIBALD C. WEEKS

JACOB DOLL

CARL SCHAEFFER

Prin. FRANK A. WILLARD

President and Curator

Vice-President

Secretary

First Assistant Curator

Second Assistant Curator

Librarian

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JACOB DOLL	CARL SCHAEFFER
GEORGE P. ENGLEHARDT	

Committee on Lectures, Study and Field Days

Prof. FRANKLIN W. HOOPER	Dr. J. L. ZABRISKIE
Prin. LYMAN A. BEST, B.A.	Prof. JOHN B. SMITH
Miss LUCILLA E. SMITH	

Committee on Collections

EDWARD L. GRAEF	JACOB DOLL
ARCHIBALD C. WEEKS	Prin. JOHN MICKLEBOROUGH, Ph.D.
CARL SCHAEFFER	

This Department was organized by the Brooklyn Entomological Society in September, 1888, with thirty-five members, and was reorganized April 29, 1895, with a membership of fifty-two. The present membership is fifty-two.

The monthly meetings during the past season have been as follows:

Oct. 29—Exhibition of Entomological Collections made by Messrs. JACOB DOLL and CARL SCHAEFFER in Southern Texas during the spring and summer of 1903.

Dec. 10—Lecture by Prof. LELAND O. HOWARD, Ph.D., Chief of the Division of Entomology, U. S. Department of Agriculture, Washington, D. C., on "Locust Plagues of Ancient and Modern Times" illustrated by lantern photographs.

Dec. 22—Conference on "The Compound Eyes of Insects," (in conjunction with the Department of Microscopy). Mr. GEORGE P. SANBORN, Chairman, and other members exhibited specimens.

Feb. 25—Conference on "The Habits of Insects," conducted by ALFRED G. MAYER, S.D., Museum Curator of Natural Sciences.

Mar. 31—Lecture by Prof. JOHN B. SMITH, of Rutgers College, on "Some Peculiarities in the Structure of Butterflies and Moths," illustrated by lantern photographs.

Apr. 12—Lecture by ALFRED G. MAYER, S.D., on "The Development of Insects," illustrated by lantern photographs.

May 28, 29, 30—JOINT FIELD MEETING of this Department and of the New York and Brooklyn Entomological Societies, Lakehurst, N. J.

The Entomological Collections have received very large additions during the past few years. In 1890 the late WILLIAM CALVERLEY presented to the Institute the entire collection of Lepidoptera, Coleoptera, Hymenoptera, and Neuroptera made by his father, STEPHEN CALVERLEY, during the years 1832-1872. The collection comprises many rare forms, is in a good state of preservation, and is carefully labeled. Catalogues accompanying the collection give the location, time of collection, and the habitat of most of the insects. The number of insects labeled in the collection is estimated to be twenty thousand.

In the autumn of 1898 Mr. FRANK S. JONES, a Member of the Board of Trustees, and a Member of the Committee on Museum of Science, of the Institute, presented Ten Thousand dollars (\$10,000) to the corporation to be used in the purchase of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA. The purchase of the Neumoegen Collection was effected in December, and thus, through the generosity of Mr. JONES, the Institute became the possessor of one of the largest and most valuable collections of Lepidoptera in the world—a collection which contains more type specimens of Lepidoptera than any other in the United States. The collection is beautifully mounted, labeled, classified and

arranged in cabinet drawers, and contains, approximately, forty-five thousand specimens, eleven thousand species, and eleven hundred type specimens.

The NEUMOEGEN COLLECTION was made by Mr. BERTHOLD NEUMOEGEN during a period of twenty years, with the assistance of Mr. JACOB DOLL, who acted as Curator of the collection during the period of its formation, 1875 to 1895.

Mr. EDWARD L. GRAEF, a Life Member of the Institute, President of the Department of Entomology, and now Curator of the Entomological Collections of the Institute, offered two years ago to present his entire collection of Lepidoptera to the Institute on condition that the BERTHOLD NEUMOEGEN COLLECTION should be purchased by the Institute for its Museum. As soon as the Trustees had acquired the title to the NEUMOEGEN COLLECTION, Mr. GRAEF presented his collection, comprising, approximately, fifteen thousand specimens of Lepidoptera, including about one hundred type forms and many rare specimens.

The late Rev. GEORGE D. HULST, Ph.D., presented his collections, of unusual value, of Geometridæ and Micro-lepidoptera, to the Museum in 1900.

Mr. P. ELBERT NOSTRAND, a Life Member of the Institute, presented to the Institute in the Autumn of 1898 his collection of Lepidoptera, numbering some three thousand specimens, together with a cabinet containing the same.

CHARLES S. MCKNIGHT, M.D., of Saratoga, presented in October, 1901, his entire collection numbering some 4,000 specimens of Lepidoptera, together with cases containing the same.

Mr. JACOB DOLL, Assistant Curator of the Entomological Collections of the Institute, has very generously loaned for exhibition at the Museum Building his own private collection of Lepidoptera, comprising some thirty thousand specimens and many rare species. It is desirable that this collection should, if possible, be purchased by the Institute, in order

that the Collections in Lepidoptera may be as complete as they can be made from collections in this country, and also to enable the Institute, by exchanging with foreign collectors, to enlarge the number of its species and varieties.

Mr. JACOB DOLL, the Assistant Curator in Entomology, on the recommendation of the Department of Entomology, has been appointed by the Trustees Custodian of the ENTOMOLOGICAL COLLECTIONS of the Institute, and since July 1, 1899, has given his entire time to the care, the preservation, arrangement, and the increase of the collections.

Mr. CARL SCHAEFFER was appointed in 1902 Assistant Curator in Entomology and is in charge more particularly of the collections in Coleoptera, Hymenoptera and Diptera, and gives his entire time to the Museum collections:

Mr. GEORGE P. ENGLEHARDT, appointed an Assistant in the Children's Museum in 1902, has given much of his time to collecting and preparing specimens for the Department of Entomology.

The Library on Entomology comprises most of the standard works on the subject, together with nearly complete series of the publications of Entomological Societies.

Messrs. JACOB DOLL and CARL SCHAEFFER were engaged in making collections for the Museum from April 15 until September, 1903, in Southern Texas near the Rio Grande, and brought home large collections and many new forms. Messrs. DOLL and ENGLEHARDT are collecting during the summer of 1904 in New Mexico and Arizona.

The use of the Entomological Collections and Library is subject to the rules and regulations adopted by the Trustees and Council of the Institute on the recommendation of the Department of Entomology. Portions of the Collections are kept on public exhibition at the Museum Building. For access to collections not on exhibition, application should be made to Mr. JACOB DOLL, Curator, at the Museum.

DEPARTMENT OF ETHNOLOGY

Mr. STEWART CULIN
 Hon. FRANK SQUIER
 Dr. JOSEPH H. HUNT

President
Vice-President
Secretary

Executive Committee

STEWART CULIN
 Hon. FRANK SQUIER
 Dr. JOSEPH HUNT
 STANSBURY HAGAR

A. F. BANDELIER
 MARSHALL I. SAVILLE
 HARLIN I. SMITH
 ALBERT A. HOPKINS

This Department was organized in November, 1903. The work of the Department during the season comprised the following:

I. A Course of Six Illustrated Lectures on "The Indians of the Southwest," by Mr. STEWART CULIN, Museum Curator of Ethnology, on successive Saturday mornings, as follows:

Feb. 20—"General Introduction."
Feb. 27—"Arts and Industries."
Mar. 5—"Customs and Religion."
Mar. 12—"The Zuni."
Mar. 19—"The Navajo."
Mar. 26—"The Ancient Peoples."

II. A Course of Six Illustrated Lectures on "The Mind of Primitive Man," by Prof. FRANK BOAZ, Ph.D., Curator of Ethnology, American Museum of Natural History, on Friday evenings, as follows:

Mar. 25—"Primitive Man and Civilized Man."
Apr. 8—"Reasoning and Emotions of Primitive Man."
Apr. 15—"The Will-Power of Primitive Man."
Apr. 22—"The Social Customs of Primitive Man."
Apr. 29—"Language and Art of Primitive Man."
May 6—"The Growth of Social Organization."

III. *Mar. 15*—Lecture by Mr. GEORGE H. PEPPER, Assistant in Archæology, American Museum. Subject: "The Ancient Pueblos of the Southwest."

The collections in Ethnology were very greatly enriched during the year under the Curator of Ethnology, Mr. STEWART CULIN. The additions comprised (1) a collection of carved wooden images, clubs, weapons and implements presented by Mr. A. AUGUSTUS HEALY, Col. ROBERT B. WOODWARD and Hon. CARLL H. DE SILVER, and costing \$360.00; (2) the large collection of Cliff Dweller Relics from Cañon du Chailly, purchased from Mr. CHARLES DAY at \$4,000, and presented by Messrs. A. AUGUSTUS HEALY and GEORGE FOSTER PEABODY; (3) a large collection illustrating the Ethnology of the Zunis, made in the southwest by Mr. CULIN, at an expense of approximately \$1,700, contributed by seventeen trustees of the Institute; (4) a collection also illustrating the Ethnology of the Zuni Indians purchased from Mr. VANDERWAGEN for \$1,000, contributed by trustees and friends of the Institute; (5) a collection of East Indian coins presented by Mr. ROBERT C. W. BROCK, of Philadelphia, together with other smaller collections.

The sum of \$1,500 was subscribed in the spring of 1904 by Members of the Institute, to be used in making additional collections in Ethnology in the southwest, and Mr. CULIN is engaged during the months of May to September in collecting in the field.

DEPARTMENT OF FINE ARTS

Prof. WILLIAM H. GOODYEAR, M.A.

President

Rev. ALFRED DUANE PELL

Vice-President

ALBERT A. HOPKINS

Secretary

Executive Committee

Prof. WILLIAM H. GOODYEAR, M.A.

Col. HENRY T. CHAPMAN

Rev. ALFRED DUANE PELL

CLAYTON L. MOAK

ALBERT A. HOPKINS

Rev. WILLIAM H. INGERSOLL

Miss LOUISE BOTH-HENDRIKSEN

The establishment of this Department was authorized by the Council and the Board of Trustees on February 11, 1888. The membership in June, 1889, was one hundred and thirty-two. The present membership is nine hundred and eighty-four.

This Department was regularly organized on Monday, March 16, 1903.

Six courses of lectures, all illustrated by lantern photographs, were given during the past season in conjunction with the Brooklyn Art Association, as follows:

I. The First Course was given by Miss JULIA M. OS-GOOD, of New York City, on "The Golden Period of the Renaissance, on Tuesday afternoons, as follows:

Nov. 10—"The Princely Houses of Gonzaga and d'Este, illustrated by the Famous Medalists of the Period."

Nov. 17—"Mantegna, Court Painter of the Gonzagas."

Nov. 24—"Isabelle d'Este: 'The First Lady of the World.'"

Dec. 1—"Raphael, the Interpreter of Divine Motherhood."

Dec. 8—"Michael Angelo, the Sculptor and the Painter."

Dec. 15—"Michael Angelo, the Lover and the Poet."

II. The Second Course was given by Prof. WILLIAM H. GOODYEAR, Curator of Fine Arts, at the Museum Building, on "The Brooklyn Institute Survey of 1903 at Constantinople and in Northern France." These lectures, twelve in number, were given at the Museum Building on Saturday afternoons, beginning November 21.

This course was given with the co-operation of the Department of Architecture, under which the lectures are fully described.

III. The Third Course was given by Fraülein ANTONIE

STOLLE, of Boston, on "The Great Galleries of Art in Europe," on Monday afternoons, as follows.

Nov. 23—"Rome, the Eternal City and Her Art Treasures."

Dec. 7—"A Visit to Florence, the Cradle of the Florentine School."

Dec. 14—"Venice and the Glory of Her Art."

Dec. 17—"The Dresden Art Galleries and Its Treasures."

Dec. 21—"Paris: Historic Versailles and the Louvre, the Famous Art Gallery."

Dec. 28—"Paris: The Panthéon, representing the Great French Modern Mural Painters of France; the Luxembourg and Modern Oil Painting."

IV. The Fourth Course was given by Prof. JOHN F. WEIR, M.A., of Yale University, on "English and French Painting," on Monday evenings, as follows:

Jan. 4—"English Portrait Painting."

Jan. 11—"English Genre Painting."

Jan. 18—"English Landscape Painting."

Jan. 25—"Classicism in French Art."

Feb. 1—"Romanticism in French Art."

Feb. 8—"Naturalism in French Art."

V. The Fifth Course was given by Mr. E. L. S. HORSBURGH, B.A., of Queen's College, Oxford, on "The Art of the Renaissance, with Special Reference to Florentine Painting." These lectures were given on Friday evenings, as follows:

Jan. 8—"Giotto."

Jan. 15—"The Classical Renaissance of the Fine Arts."

Jan. 22—"Fra Angelico and the San Marco Frescoes."

Jan. 29—"Sandro Botticelli."

Feb. 5—"Michael Angelo."

Feb. 12—"Michael Angelo and His Successors."

VI. The Sixth Course, illustrated, was given by Prof. WILLIAM H. GOODYEAR, M.A., on "Italian Art from the 14th to the 17th Century," at the Museum on Saturday afternoons, as follows:

Mar. 5—"Giotto and Italian Fresco in the Fourteenth Century."

Mar. 12—"Masaccio and Italian Fresco in the Fifteenth Century."

Mar. 19—"Italian Panel Painting of the Fifteenth Century."

Mar. 26—"Italian Sculpture of the Fifteenth Century, The Successors of Donatello."

Apr. 2—"Leonardo da Vinci."

Apr. 9—"Raphael."

Apr. 16—"Raphael" (continued).

Apr. 30—"Michael Angelo" (Painting).

May 7—"Michael Angelo," painting (continued).

Besides the foregoing courses, the following single illustrated lectures were delivered in conjunction with the "Section on Art Education" of the Department of Pedagogy; as follows:

Oct. 9—Lecture by Miss FLORENCE N. LEVY, Editor of "The American Art Annual" on "Whistler, Sargent, and Abbey."

Feb. 10—Lecture by J. CLARK HOPPIN, Ph.D., of Bryn Mawr College, on "Greek Coins in their Relation to History and Art."

Mar. 3—Lecture by Prof. JOHN H. NIEMEYER, of Yale University, on "James McNeil Whistler."

Mar. 22—Lecture by Prof. WILLIAM H. GOODYEAR, M.A., on "The Discovery of Vertical Curves and Other Architectural Refinements in the Gothic Cathedrals of Northern France."

Mar. 29—Lecture by Mr. A. T. VAN LAER, of New York, on "American Painters."

THE EVENING ART SCHOOL

For the benefit of those Art Students who desire to pursue Courses of Art Instruction in evening classes, the EVENING ART SCHOOL has been established in conjunction with the Brooklyn Art Association, and the following courses have been conducted during the past twelve years:

I. Course in Free Hand Drawing from Models and from the Antique, for beginners.

II. Men's Life Class, with Drawing and Painting from Life.

The instruction in these classes was given by Mr. JOSEPH H. BOSTON, in the Art Building, 174 Montague street. The tuition for Course I was free to students who showed ability and made good progress, and for Course II, \$12 per quarter. The school opened on the first Tuesday in October, and closed on the last Friday in May.

THE TISSOT COLLECTION OF PICTURES

In January, 1899, this collection, comprising ten (10) oil paintings, three hundred and fifty (350) water colors, and one hundred and sixty-one (161) pen and ink sketches by M. JAMES J. TISSOT, of Paris, the result of ten years' travel, study and research in the Holy Land, was for the first time brought to Brooklyn for public exhibition. It was placed in the Art Galleries in Montague street for a single week and was there visited by over nine thousand people, and the receipts from the exhibition exceeded two thousand dollars.

Several of the Trustees of the Institute, and among them Mr. A. AUGUSTUS HEALY, President; Hon. CHARLES A. SCHIEREN and Hon. CARLL H. DE SILVER, Vice-Presidents, and Col. ROBERT B. WOODWARD, long associated with the

Board, realizing the historical, educational and artistic value of the paintings, and witnessing the large numbers that attended the exhibition of the pictures, not only in Brooklyn, but in New York, Boston, Chicago, and other cities, reached the conclusion that it would be an excellent thing if the pictures could be purchased for the Museum collections of the Institute. In the spring of 1899 inquiries were made through the representatives of M. TISSOT in this country whether the collection might not be for sale, and, if so, at what price. In June a reply was received from M. TISSOT, naming the price and stating as conditions of the sale of the paintings that they must be purchased, if at all, for a public museum where they might be seen by a large number of people, and on the further condition that the collection should be kept intact for all time.

Several offers in the meantime were made to M. TISSOT for the paintings, and in order that the claims of the Institute to so valuable a collection might be made fully known to M. TISSOT, and a complete understanding be reached as to the terms of a possible sale to the Institute, President HEALY visited M. TISSOT at his summer home in the south-east of France in August. In the autumn of 1899 Mr. HEALY made known to the Board of Trustees the opportunity that existed to purchase from M. TISSOT the entire collection of pictures relating to the Life of Christ. Efforts were made in a private way in the autumn to secure subscriptions towards a fund for a purchase of the paintings, and in January, 1900, authority was given by the Board of Trustees to raise sixty thousand dollars (\$60,000.00), the purchase price, by subscription, in order that the pictures might become the property of the Institute and be placed in its permanent museum collections.

Sixty thousand dollars is a large sum to raise by subscription for the purchase of a collection of works of art, no matter how valuable they may be. During the months

of February, March, April and May a little more than fifty-three thousand dollars was subscribed. A number of the Trustees and friends of the Institute advanced sufficient funds to enable the Institute to obtain possession of the paintings and to make possible the payment to M. Tissor the full sum of sixty thousand dollars. It was expected that the balance of some seven thousand dollars would be subscribed during the year 1900-1901.

The pictures were placed on exhibition in the Art Building for four weeks, beginning March 29 and ending April 16, 1900, and later were exhibited in the Academy of Design, Twenty-third street and Fourth avenue, Manhattan, from April 20 to May 7, inclusive. Both of these exhibitions were largely attended. The collection was later exhibited at the St. Louis Exposition during October, 1900, and was there visited by about one hundred and ten thousand persons.

The fund of \$60,000 for the purchase of the Tissot pictures was completed in January, 1901, when complete title to the collection was secured by the Institute. Two galleries on the third floor of the Museum were provided with fire-proof screens and re-decorated to receive the collection. The pictures were all newly framed in April and were placed on permanent exhibition in May, 1901. The collection attracts large numbers of visitors to the Museum. Catalogues of the collection have been printed and may be purchased at the Museum at a nominal price.

THE LOAN COLLECTION OF PAINTINGS AND OTHER WORKS OF ART were continued on exhibition throughout the years 1903-1904. Additions are made in June and November of each year, and citizens having valuable paintings or other works of art that they are willing to loan to the Museum for exhibition for a stated time, are respectfully requested to communicate with any Member of the Committee on Art Museum. The Committee consists of Hon.

CARLL H. DE SILVER, Chairman, Col. HENRY T. CHAPMAN, Mr. HENRY H. BENEDICT, Mr. GEORGE C. BRACKETT, and Mr. JOHN B. LADD.

THE PERMANENT ART COLLECTIONS of the Institute are on exhibition at the Museum Building in the four galleries on the third floor, in the three galleries on the first floor, and in the hallways. All of the works of art are plainly labeled and are catalogued. Catalogues of the Loan and the Permanent Collections of Paintings in the Museum have been printed and may be purchased at the Museum.

The permanent art collections have been presented to the Institute by public-spirited citizens of Brooklyn and Manhattan, and constitute a noble monument to the generosity of the Members and friends of the Institute, past and present. A list of the gifts to the art collections during the year is given under the account of the Museum.

THE COLLECTION OF ORIENTAL GLASS, presented in 1891 by Col. ROBERT B. WOODWARD, a Member of the Board of Trustees, was installed in cases on the first floor of the Museum in 1902 and very carefully labeled.

THE COLLECTION OF EUROPEAN CHINA being made by the Rev. ALFRED DUANE PELL, Vice-President of the Department, of New York, is a very choice collection and now numbers some four hundred pieces.

THE COLLECTION OF PHOTOGRAPHS, numbering upwards of four thousand Prints, has been mounted and is now being labeled, catalogued and arranged in portfolio cabinets for reference. Two hundred and thirteen enlarged bromide photographs of Italian architectural subjects have been hung on the walls of the hallways of the Museum, and labeled and catalogued. Important additions to the photographic collections will be made during the season of 1904-5. Mr. GEORGE A. HEARN, a Member of the Board of Trustees,

recently presented the Institute with \$500,000 to be used in the purchase of photographs of Italian Art.

Mr. FREDERICK LOESER presented in 1902 \$10,000, the interest of which is to be expended in the purchase of photographs of works of art, casts of sculptures, and other forms of reproduction of art works, and when the Museum is well supplied with these, the income of the fund may be used in purchasing original works of art.

THE COLLECTION OF LANTERN PHOTOGRAPHS of works of Art, numbering upwards of three thousand slides, mostly colored, has been labeled and catalogued. These lantern slides are used in illustrating lectures on Art subjects given at the Museum Building.

DEPARTMENT OF GEOGRAPHY

Dist. Supt. EDWARD B. SHALLOW
JAMES CRUIKSHANK, LL.D.
Prin. WILLIAM J. O'LEARY

President
Vice-President
Secretary

Executive Committee

Dist. Supt. EDWARD B. SHALLOW	FREDERICK A. COOK, M.D.
Prin. ALMON G. MERWIN, Pd.D.	GARRETT P. SERVISS, B.A.
JAMES CRUIKSHANK, LL.D.	DWIGHT L. ELMENDORF
LEWIS E. MEEKER M.D.	HARRINGTON PUTNAM
WALTER B. GUNNISON, Ph.D.	BENJAMIN F. SEAVER
Prin. WILLIAM J. O'LEARY	Prin. FREDERICK L. LUQUEER
Prof. HERSCHEL C. PARKER, Ph.B.	Mr. HERBERT L. BRIDGMAN
Prin. ANDREW I. SHERMAN	Mr. ERNEST C. ROST
Prin. CHARLES D. RAINE	Mrs. M. CLAIRE FINNEY

The organization of the Department of Geography was effected on February 15, 1890, with thirty members. The present membership is three hundred and seventy-one. The following meetings have been held during the past season:

I. Nov. 13—Lecture by HENRY G. PEABODY, of Boston, entitled "In the Footsteps of Cortez," illustrated by lantern photographs.

Dec. 4 —Lecture by Mrs. M. C. FINNEY, of Brooklyn, on "An Andean Tour Through Three Zones," illustrated by colored lantern photographs.

Dec. 11 —Lecture by Mr. HOWARD W. DUBOIS, of Philadelphia, on "Camping Expeditions in the Rockies of Canada," illustrated by lantern photographs.

Jan. 8 —Lecture by the Rev. H. H. PARRY, of Brooklyn, on "Picturesque Wales and Her People," illustrated by lantern photographs.

Jan. 20 —Lecture by Mr. THEODORE CHOPOURIAN, a native of Constantinople, on "The Countries about the Eastern Mediterranean."

Feb. 13 —Lecture by Prof. HERSCHEL C. PARKER, Ph.B., of Columbia University, on "Explorations and First Ascents in the Canadian Alps," being an account of the four "first ascents" made last summer by Prof. PARKER of the noted Peaks: Mt. Goodsir, Mt. Hungabee, Mt. Deltaform, and Mt. Biddle, illustrated by lantern photographs.

May 4 —Lecture by Mr. H. MONTAGUE DONNER, of Brooklyn, on "Finland: Her Institutions and People," illustrated by lantern slides.

May 12 —Lecture by Rev. HENRY R. ROSE, of Newark, on "Evangeline, the Land and the Story," illustrated by lantern photographs.

May 17 —Lecture by Mr. WILLIAM E. DAVENPORT, of Brooklyn, on "Peasant Life in Southern Italy," illustrated by lantern photographs.

II. A Course of Five Illustrated Lectures on "Japan, its People, History and Institutions," by Dr. TOYOKICHI IYENAGA, beginning February 18. This course was given in connection with the Department of Political Science, under which the lectures are fully described.

III. In addition to the foregoing lectures and conferences,

all of which were open to the Institute Members on the presentation of the current weekly ticket, the following Special Courses were given:

I. Special Lectures by Mr. DWIGHT L. ELMENDORF, of New York, under the joint auspices of the Departments of Geography and Photography, in Association Hall, on Saturday afternoons and evenings, as follows:

- I. *Oct. 10*—"Egypt, Yesterday and To-day."
- II. *Oct. 17*—"Palestine: A Journey through the Holy Land."
- III. *Oct. 24*—"Old Mexico."
- IV. *Oct. 31*—"From Denver to the Grand Cañon."
- V. *Nov. 7*—"The Pacific Coast, from San Diego to Portland."
- VI. *Nov. 14*—"Yellowstone Park, the Wonderland of the World."
- I. *Mar. 26*—"The Yellowstone Park."
- II. *Apr. 2*—"Palestine."

Each lecture was illustrated by lantern photographs and motion pictures taken by the lecturer.

2. A Special Course of Four Lectures by Mr. NAT M. BRIGHAM, under the joint auspices of the Departments of Geography and Photography, in Association Hall, on Saturday afternoons and evenings, as follows:

- Jan. 16*—"The Grand Canyon of Arizona."
- Jan. 23*—"The Land of the Snake Dance," (introducing Indian and Spanish songs).
- Jan. 30*—"The Apache Warpath," (introducing martial songs).
- Feb. 6*—"Utah and the Mormon Commonwealth," (introducing characteristic songs).

This course was illustrated by numerous colored lantern photographs and characteristic songs.

3. A Special Course of Five Lectures given in conjunction with the Department of Photography by Mr. BURTON HOLMES, of Chicago, illustrated by colored lantern photographs, and by motion-pictures projected by the Chronomatograph. These lectures were given on successive Wednesday afternoons and evenings, as follows:

Feb. 24—"The Yosemite Valley."

Mar. 2—"The Trans-Siberian Railway."

Mar. 9—"Korea," (in costume).

Mar. 16—"Alaska," (I).

Mar. 23—"Alaska," (II).

IV. Besides the foregoing special courses, three special lectures were given as follows

4. A Special Lecture by Mr. HARRY DE WINDT, F.R.G.S., given on Friday evening, November 27, and repeated on Saturday afternoon, November 28, on "Siberia and the Russian Exiles."

5. A Special Lecture by Miss ZAIDA BEN-YUSUF of New York, on Saturday evening, April 16, on "The Japanese People."

V. The Main Geographical Collections of the Department have been arranged in the large gallery on the basement floor of the Museum Building, and have been available for use by the public at all times when the Museum is open. The Collection contains upwards of three thousand maps, charts, globes, reliefs, models, books of reference, and other geographical publications. Recent valuable donations have been made to the Collection, and twenty-four geographical models of conspicuous features of the earth's surface, and eight models of Pueblos and cliff dwellings from Arizona,

New Mexico and vicinity, together with some fifty enlarged photographic transparencies of places of geographic interest have been recently purchased. The Geographical Collections of the Children's Museum are open free to the public at all hours when the Museum is open.

Principals and teachers are invited to bring their classes to study the Geographical Collections. The Collections can thus be used in giving illustrated class instruction on Wednesdays to Saturdays, inclusive, each week.

DEPARTMENT OF GEOLOGY

Prof. JOHN MICKLEBOROUGH, Ph.D.	<i>President</i>
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The Department of Geology was organized on December 18, 1888, with thirty-four members. Its present membership is one hundred and forty-eight. The lectures during the past year have been as follows, all illustrated by lantern photographs:

Oct. 28—Lecture by Prof. BENJAMIN K. EMERSON, Ph.D., of Amherst College, on "Japan: Its Geology and Earthquakes."

Nov. 25—Lecture by Mr. O. P. HAY, of the American Museum, on "Recent Discoveries of Fossil Reptiles in the Far West."

Dec. 23—Lecture by Prof. ANGELO HEILPRIN, of Philadelphia, on "The Giant Obelisk of Mont Pelee: New Researches in Martinique."

Jan. 7—Lecture by Prof. WILLIAM B. SCOTT, Ph.D., of Princeton University, on "The Great Argentine Fossil Beds of South America."

Feb. 24—Lecture by Prof. MAGNUS C. IHLSENG, of the Polytechnic Institute, on "The Coal Supply of the United States."

Mar. 23—Lecture by ALFRED G. MAYER, S.D., Curator of the Natural Science Collections of the Museum, on "The Geology of the Bahamas."

May 25—Lecture by Rev. WILLIAM T. ELSING, of New York, on "The Reign of Fire on the Earth."

The Geological Collections of the Institute comprise the following: (1) A collection of lithological specimens representing the drift deposits of Long Island. (2) A collection of fossils found in the drift deposits of Long Island. (3) A collection of sands arranged in stratigraphical series representing the tertiary and quaternary deposits of Long Island. (4) A collection of lithological specimens representing the geological formations (including the drift deposits) on Manhattan Island. (5) A collection of lithological specimens representing the geological formations (including the trap rock of the Palisades) of New Jersey. (6) The GEBHARD Collection representing the paleontology and lithology of Schoharie County, N. Y., described in the eleventh Year Book (1898-9). (7) A lithological collection representing the plutonic rocks of Germany. (8) A collection representing the coal plants of the Pennsylvania carboniferous rocks. (9) A general lithological collection representing typical rocks from various parts of the United States and Europe. (10) A collection of fossils from the geological formations in southern Germany. (11) A collection of fossil fishes presented by the Hon. EUGENE G. BLACKFORD in 1901. (12) A large collection of fossils from the formations in the State of New York made by Mr. FREDERICK BRAUN for the Museum.

The Department of Geology also has the following loan exhibits: (1) A general collection in paleontology and lithology, loaned by Prof. DANIEL S. MARTIN. (2) A fine collection in paleontology specially rich in fossil corals, fossil star-fishes and fossil sponges, loaned by Mr. FREDERICK BRAUN.

The Skeleton of the Mastodon that was acquired in 1899 was mounted in the Natural History Gallery on the second floor of the Museum in March, 1901.

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This Department was organized on Friday, June 14, 1895, with a membership of one hundred and twenty-three. On January 27, 1896, the Executive Committee held its first meeting and appointed its Standing Committees. The first public meeting was held on Monday evening, March 30,

1896, and the opening Address was delivered by the Hon. EDWARD J. PHELPS, LL.D., ex-Minister to Great Britain.

The present membership of the Department is two hundred and forty-six. The work of the Department during the past year has comprised the following addresses:

I. *Nov. 16*—Address by the Hon. ABRAM H. DAILEY, of Brooklyn, on "Mental Capacity and Subjective Action."

Feb. 15—Address by the Hon. GEORGE L. RIVES, Ex-Corporation Counsel of the City of New York, on "Some Unsettled Legal Problems Affecting the Government of Cities."

Mar. 14—Lecture by Hon. EDWARD B. THOMAS, Judge of the U. S. District Court, on "Progress of Citizenship and the Accountability of the Nation and State."

Apr. 14—Lecture by Hon. ROBERT D. BENEDICT, LL.D., of New York, on "A Famous French Law Suit, or Beaumarchais and the Lady of XV. Louis."

Besides the foregoing, the following course was given:

II. A Course of Four "Law Lectures for Women," by Mrs. CORNELIA K. HOOD, LL.B., of Waverly, Nova Scotia, on Thursday afternoons at 4 o'clock, as follows:

Mar. 17—"Mortgages."

Mar. 24—"The Law of Domestic Relations."

Mar. 31—"Special Property Rights of Married Women."

Apr. 7—"Legal Gift or Sale."

The Law Department is engaged in making a collection of portraits and busts of eminent jurists and lawyers, and also a collection of rare legal books and papers associated with the study and practice of law which may have an historical or personal value. The presentation of the portraits as stated above marks the beginning of Museum collections in the Law Department.

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Prin. CHARLES W. LYON, Jr.	Prof. JOSEPH BOWDEN, Ph.D.
JAMES CRUIKSHANK, LL.D.	J. P. WINTRINGHAM
Prin. CHARLES D. LARKINS	Prof. J. BRACE CHITTENDEN, Ph.D.

The organization of this Department was effected on May 23, 1890, with a membership of twenty-five. The present membership is one hundred and one. The meetings of the Department during the season have been held on Wednesday evenings, with dates and subjects as follows:

Oct. 14—Lecture by Prof. DAVID EUGENE SMITH, of Teachers College, on "The History of the Development of Arithmetic," illustrated by lantern photographs.

Nov. 11—Lecture by Prof. JOSEPH BOWDEN, Ph.D., of Adelphi College, on "The Foundations of Geometry."

Dec. 9—Lecture by District Superintendent CHARLES W. LYON, Jr., on "Teaching Mathematics in Grammar Schools." A Conference followed the lecture.

Jan. 13—Lecture by Prof. J. BRACE CHITTENDEN, Ph.D., on "Fundamental Concepts in Mathematics," (with an historical sketch).

Feb. 10—Lecture by District Superintendent JAMES J. McCABE, on "Innovations in the Study and Teaching of Mathematics." A Conference followed the lecture.

Mar. 9—Lecture by Principal FRANK HARDING, of Grammar School No. 83, on "Problem Work in Grammar Grades." A Conference followed the lecture.

DEPARTMENT OF MICROSCOPY

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 THOMAS I. MILLER
 LAWRENCE L. DUERDEN
 JAMES WALKER

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LAWRENCE L. DUERDEN	WALLACE GOOLD LEVISON, B.Sc.
JAMES WALKER	FREDERICK KATO
JOHN J. SCHOONHOVEN	Mrs. HELEN W. JOY
Miss IDA CLENDENIN	

This Department was organized by the Brooklyn Microscopical Society in April, 1888, with a membership of sixty-eight, and is the oldest in the Institute. Its present membership is one-hundred and twenty-two. The regular meetings held during the year have been as follows:

I. Jan. 12—Lecture by Mr. GEORGE C. WHIPPLE, Biologist of the Water Supply Department of Brooklyn, Prospect Heights Laboratory, on "Typhoid Fever in New York City," illustrated by lantern photographs of typhoid germs, of the various watersheds, and of tables showing mortality in different boroughs.

Mar. 16—Lecture by Prof. HERBERT W. CONN, Ph.D., of Wesleyan University, on "The Common Moulds," illustrated by lantern photographs and microscopic slides.

Informal meetings were held on the fourth Tuesday evening of each month, which afforded members an opportunity for the discussion and the exhibition of their individual work with the microscope. The dates and proceedings at these meetings were as follows:

II. *Oct. 13*—Exhibit and Description of Summer Work by Members of the Department; Mr. J. P. WINTRINGHAM, President of the Department, Chairman.

Oct. 27—Conference on "Recent Diatoms, with Suggestions on Gathering, Cleaning and Mounting." Mr. HENRY S. WOODMAN, Chairman, and other Members of the Department exhibited and described Diatoms of recent gathering.

Nov. 24—Conference on "Marine Life: its Forms, Phases and Structure." Mr. JOHN J. SCHOONHOVEN, Chairman of the Conference, and other Members exhibited and described preparations.

Dec. 15—Lecture by Mr. GEORGE E. ASHBY, on "The Iridescence of Glass," illustrated by lantern photographs, lantern experiments, and by photomicrographs, showing the structure of glass.

Dec. 22—Conference on "The Compound Eyes of Insects." Mr. GEORGE P. SANBORN, Chairman, and other Members exhibited specimens.

Jan. 26—Regular Monthly Conference of the Department. Mr. JAMES WALKER, Chairman. Subject: "Radiolaria (Polycystina of Ehrenberg)."

Feb. 13—The Seventeenth Annual Exhibition of Microscopic Preparations and Apparatus.

Feb. 23—Conference conducted by the Misses IDA CLENNIN, ESTHER BYRNES, MARGARET E. LEE and MYRA C. CHATTERTON, of the Natural Science Department of the Girls' High School.

Mar. 22—Conference on "The Diatoms, the Best Known Microscopic Algae." Mr. J. P. WINTRINGHAM, President of the Department, Chairman.

May 24—Conference on "Pond Life." Mr. FREDERICK KATO, Chairman, and Messrs. GEORGE E. ASHBY, JAMES WALKER, LAWRENCE L. DUERDEN and other members exhibited forms of aquatic life.

III. The Seventeenth Annual Exhibition of Microscopic Preparations and Apparatus was held on Saturday evening, February 13, at the Art Gallery, 174 Montague Street, from 8 until 11 o'clock.

Forty-four microscopes were in use during the evening, and eighty-five objects were exhibited.

The exhibitors were: WALLACE GOOLD LEVISON, S.B.; LAWRENCE L. DUERDEN, JAMES WALKER, BENJAMIN T. VAN NOSTRAND, GEORGE E. ASHBY, W. G. BOWDOIN, Kunz-Baskerville Mixture (Prof. E. E. SLOSSON, Ph.D.); JOSEPH EPES BROWN, GEORGE P. SANBORN, FREDERICK KATO, EDWARD F. BIGELOW, BAUSCH & LOMB Optical Company, under the direction of HENRY FINCKE; MARTIN H. WILCKENS, ELIZABETH LUM, GEORGE A. FISKE, J. P. WINTRINGHAM, L. W. FROELICK, HELEN Warburton-Joy, HENRY S. WOODMAN, JOHN J. SCHOONHOVEN, MARTIN E. ALPERS, Jr., DOROTHY A. BALDWIN, GEORGE M. MATHER, JOHN WHITMORE, The Mackenzie School for Boys, Dobbs Ferry, N. Y., in charge of JOHN C. FISHER, R. O. PHILLIPS, Jr., EDWARD R. WEST, Jr., and R. W. RICE, LUTHER R. SAWIN, E. C. CHAPMAN, WILLIAM URBAN, EMIL SCHLICHTING, ESTHER F. BYRNES, MYRA L. CHATTERTON, GRACE A. BEARD, EVA CAPRON, MARGUERITE T. LEE, JOHN M. SHUTE.

THE PERMANENT PUBLIC MICROSCOPICAL EXHIBITION

Under the supervision of Prof. JOHN S. MCKAY, Ph.D., Curator of the collections in the Physical Sciences, five special microscopical cases were constructed in 1890, in which to place for permanent public use the twenty-nine compound microscopes owned by the Institute. Each of these cases is six feet in length, about fourteen inches in height, has a solid wooden bottom, which rests upon a table, and has plate glass in the front, back and two ends. The

top of each case is also of plate glass, perforated with holes about two and one-half inches in diameter. Each of the cases is designed to contain six compound microscopes. The microscopes have been placed in the cases with the eyepiece projecting through the round openings in the top. Four of the five cases, containing altogether twenty-three microscopes, have been placed on tables on the second floor of the Museum Building, and one, containing six of the microscopes, at the Children's Museum. The microscopes thus placed in the cases can be continuously in use by visitors to the Museum Building. Microscopic objects are placed by the Curator under the several microscopes; the objects are focused, and anyone visiting the Museums may have an opportunity to see at any time at least twenty-nine interesting microscopic objects. The objects are changed from time to time, so that those who visit the Museum one week may find fresh objects for observation the following week. It is believed that this arrangement of the microscopes for constant public use constitutes the First Permanent Public Microscopical Exhibition in any Museum.

The Department has for use at its meetings at the Museum Buildings thirty good Microscope Stands with attachments to aid in the illustration of subjects under consideration. The same stands are also for the use of other Departments of the Institute. Four microscopes and a collection of microscopical preparations are kept at the Art Building in Montague street, where the regular Conferences by the Department are held.

To the collections and apparatus in Microscopy were added in 1902 the very valuable microscopical outfit of the late S. E. STILES, M.D., formerly President and for many years an active and a very useful and much honored Member of the Department. The collection comprises some 1,100 very excellent microscopical preparations, a compound microscope, with many attachments, including a fine polariscope.

DEPARTMENT OF MINERALOGY

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FREDERICK KATO	JAMES WALKER
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WALLACE GOULD LEVISON, B.Sc.	

The Department of Mineralogy was organized on November 21, 1888, with twenty-eight members. The present membership is one hundred and two. The regular meetings were held on the first Tuesday evening of each month, and during the year the proceedings at the meetings have been as follows:

I. *Nov. 10*—Lecture by ALEXIS A. JULIEN, Ph.D., of Columbia University, on "The Relation of the Structure of Minerals to their Use in the Arts," illustrated by the polariscope and by micro-photographs.

Dec. 1—Lecture by Mr. GEORGE L. ENGLISH, of New York, on "Monazite, and the Wonderful Carolina Sands," illustrated by photomicrographs, lantern slides, diagrams, models, and specimens; also by a series of the rare chemical salts obtained from Monazite.

Jan. 5—Lecture by Mr. L. P. GRATICAP, Curator of Mineralogy, American Museum, on "The Iron Minerals and the

Mineral Resources of the Great Northwest," illustrated by lantern photographs.

Feb. 2—Lecture by CHARLES PALACHE, Ph.D., of Harvard University, on "Diamonds," illustrated by lantern photographs.

Mar. 1—Lecture by H. P. WHITLOCK, Department of Mineralogy, State Museum, Albany, on "The Mineral Species of the State," illustrated by specimens of Minerals.

Besides the foregoing lectures, Conferences for the Exhibition and Description of Mineral Collections of Special Interest and Exceptional Scientific Value were held on the third Tuesday evening of each month. The dates and proceedings of these meetings were as follows:

II. *Oct. 20*—Conference on "Garnets." Mr. JAMES WALKER, Chairman, and other Members of the Department exhibited and described collections.

Nov. 17—Conference on "The Minerals of the Alkalis." Mr. WALLACE GOULD LEVISON, B.Sc., Chairman, and other Members exhibited and described collections.

Dec. 8—Conference on "Fossil Resins." Mr. GEORGE E. ASHBY, President of the Department, Chairman, and other Members exhibited and described collections.

Jan. 19—Conference on "The Aluminum Minerals." Mr. CHARLES L. HATCH, Chairman, and other Members exhibited and described collections.

Feb. 16—Conference on "Apophyllite and Heulandite." Mr. J. A. GRENZIG, Chairman, and other Members exhibited and described collections.

Mar. 15—Conference on "The Minerals Containing Tin." Mr. WILLIAM URBAN, Jr., Chairman, and other Members exhibited and described collections.

Apr. 19—Conference on "Sphaelerite and its Physical Characteristics." Mr. THOMAS I. MILLER, Chairman, and other Members exhibited and described collections, and Mr. MILLER used apparatus specially designed to demonstrate some of the peculiar properties of Spaelerite.

May 17—Conference on "Notes on the Bergen Hill Trap Rock and Its Minerals." Mr. FREDERICK KATO, Chairman.

III. The Mineral Collections of the Department have been increased during the past year by the gift of many beautiful, large, rare and instructive specimens, and the Collections will be further enriched during the coming season. Those specimens that are most suitable for public exhibition have been placed in glass cases in the new Museum Building and in the Children's Museum, Bedford Park. Other specimens are arranged for reference in closed cases and still others await case room for their display. New cases will be added to the Mineral Department during the year to accommodate its collections.

The Children's Museum contains good collections of Minerals and Rocks, to which additions will be made during the coming year.

IV. A Very Valuable Loan Exhibition of Minerals has been placed in the Gallery on the second floor of the new Museum by the following Members of the Department: WILLIAM URBAN, Jr., CHARLES L. HATCH, JAMES WALKER, WALLACE GOOLD LEVISON, and Prof. DANIEL S. MARTIN. These loan collections have remained on public exhibition through the courtesy of their owners since the Fourth Annual Mineralogical Exhibition, given in December, 1897, and have added very greatly to the attractiveness of the Museum Collections in Natural History and to the instruction of the public. It is expected that the collections will remain for several months longer.

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Terms expire in April, 1908

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* Deceased.

Terms expire in April, 1909

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Mrs. CAMDEN C. DIKE	Mrs. HENRY I. JUDSON
CHARLES STUART PHILLIPS	

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Lectures

CARL FIQUÉ	W. F. HERBERT
WILLIAM HEATON	HENRY C. KNIGHT
Mrs. OTTO HEINZE	BERNARD O'DONNELL
Mrs. CHARLES F. PRAY	

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Miss MARY BENSON	FREDERICK PRESTON
H. BROOKS DAY	Mrs. THOMAS PROSSER
WILLIAM E. TAYLOR	

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SAMUEL A. BALDWIN	FRANCIS J. MULLIGAN
Miss MARY BENSON	HERBERT S. SAMMOND
SCOTT WHEELER	

This Department was organized on November 27, 1891, with fifty-four members. The present membership is two thousand, one hundred and sixty-one. The work of the Department has comprised the following:

I. OPENING SONG RECITAL

Oct. 22—By Mme. LOUISE HOMER, contralto, and Mr. DAVID BISPHAM, barytone; Mr. HAROLD O. SMITH at the piano; at the Academy of Music.

II. A SERIES OF FIVE CHAMBER MUSIC CONCERTS

These concerts were given by THE KNEISEL STRING QUARTET of Boston: Mr. FRANZ KNEISEL, first violin; Mr. J. THEODOROWICZ, second violin; Mr. LOUIS SVECENSKI, viola; Mr. ALWIN SCHROEDER, 'cello; in Association Hall.

Oct. 29—Soloist, Mrs. THOMAS TAPPER, piano.

Nov. 19—Soloist, Mr. HOWARD BROCKWAY, piano.

Dec. 17—Soloist, Mr. FRANZ KNEISEL, violin.

Jan. 7—Soloist, Mr. ALWIN SCHROEDER, 'cello.

Feb. 4—Soloist, Miss KATHARINE LINN, piano.

III. A SERIES OF FIVE EVENING ORCHESTRAL CONCERTS

These concerts were given by the BOSTON SYMPHONY ORCHESTRA, Mr. WILHELM GERICKE, conductor, under the auspices of the Department of Music of the Institute and the BROOKLYN PHILHARMONIC SOCIETY, as follows:

Nov. 6—Soloist, Madame GADSKI, soprano.

Dec. 11—Soloist, Miss ADELE AUS DER OHE, piano.

Jan. 15—Soloist, Mr. FERRUCCIO B. BUSONI, piano.

Feb. 15—Soloists, Mr. RUDOLPH KRASSELT, 'cello; Mr. GEORGE PROCTOR, piano.

Mar. 18—Soloist, Mr. RAPHAEL JOSEFFY, piano.

IV. EXPLANATORY RECITALS OF THE WAGNER MUSIC DRAMAS

These lecture-recitals were given in Association Hall by Mr. WALTER DAMROSCH, as follows:

Nov. 20—"Rheingold," Mrs. MARY HISSEM-DE MOSS, soprano; Miss MAY WALTERS, mezzo-soprano; Miss MARGUERITE HALL, contralto, assisting artists.

Nov. 25—"Walkure," Miss HELEN HERBERT, soprano, and Mr. EMIL FISCHER, basso, assisting artists.

Dec. 2—"Siegfried," Mrs. CAROLINE MIHR-HARDY, soprano, assisting artist.

Dec. 9—"Gotterdammerung," Mrs. SHANNA CUMMING, soprano, assisting artist.

Dec. 16—"Parsifal," Mr. DAVID MANNES, violin, assisting artist.

This last recital on "Parsifal" was repeated on the evening of December 30.

V. A SPECIAL PIANO RECITAL

This recital was given in Association Hall on the evening of Thursday, December 3, by Mme. BLOOMFIELD-ZEISLER.

VI. ORATORIO CONCERT, "THE MESSIAH"

This concert was given in the Baptist Temple on the evening of Friday, December 18, by THE ORATORIO SOCIETY OF BROOKLYN, Mr. WALTER HENRY HALL; conductor; assisted by Mrs. SHANNA CUMMING, soprano; Miss MAY WALTERS, contralto; Mr. GEORGE HAMLIN, tenor; Mr. HERBERT WITHERSPOON, basso, and an orchestra of forty musicians; Mr. GUSTAV DÄNNREUTHER, concertmeister.

VII. A CLASSICAL SONG RECITAL

This recital was given in Association Hall by Mr. DAVID BISPHAM on the evening of Thursday, January 21; Mr. HAROLD O. SMITH at the piano.

VIII. A SPECIAL CONCERT

This concert was given by Mme. SCHUMANN-HEINK, contralto, and M. JACQUES THIBAUD, violin, on the evening of Thursday, January 28, in the Baptist Temple; Miss JOSEPHINE HARTMANN and Mr. ANDRE BENOIST at the piano.

IX. A SPECIAL VIOLIN AND SONG RECITAL

This recital was given by Miss MAUD POWELL, violin, and Mr. GWILYM MILES, barytone, in Association Hall on the evening of Thursday, February 11.

X. A SPECIAL ORCHESTRAL CONCERT

This concert was given by the WETZLER SYMPHONY ORCHESTRA, with Dr. RICHARD STRAUSS conductor for three of his own works and HERMAN HANS WETZLER conductor for one number; Mme. PAULINE STRAUSS-DE AHNA, soprano. The concert was given in the Baptist Temple on the evening of Monday, February 29.

XI. A SPECIAL ORCHESTRAL CONCERT

This concert was given by the NEW YORK SYMPHONY ORCHESTRA and consisted of excerpts from "Parsifal," in concert form, with connecting explanatory remarks by Mr. WALTER DAMROSCH, Musical Director. The assisting artists were: Mme. MIHR-HARDY, "Kundry"; Mr. EDWARD JOHNSTON, "Parsifal"; Mr. FRANCIS ARCHAMBAULT, "Amfortas." Flower Maidens: Mme. MIHR-HARDY and the Misses MAUD KENNEDY, MARGARET CRAWFORD, KATHARINE WHEELER, BERTHA HARMON, and ESTELLE BLOOMFIELD; Mr. DAVID MANNES, violin. The concert was given in the Baptist Temple on the evening of Friday, March 25.

XII. A SPECIAL CHORAL CONCERT

The Sixth Annual Choral Concert before the Institute by THE ARION SINGING SOCIETY OF BROOKLYN, Mr. ARTHUR CLAASSEN, conductor, was given in the Baptist Temple on

the evening of Thursday, April 7. The assisting artists were: Miss ANNA OTTEN, violin; Mr. CARL GRIENAUER, 'cello; Miss CLARA OTTEN, piano; Mr. FLORESTAN DOMADCHEDITZ, organist; and Mr. OTTO L. FISCHER at the piano.

XIII. ORATORIO CONCERT

At this concert EDWARD ELGAR's "King Olaf" was given in Carnegie Hall, Manhattan, on the evening of Friday, April 29, by THE ORATORIO SOCIETY OF BROOKLYN, Mr. WALTER HENRY HALL, conductor; assisted by Mrs. SHANNA CUMMING, soprano; Mr. THEODORE VAN YORX, tenor; Mr. HERBERT WITHERSPOON, basso, and an orchestra of sixty. Mr. GUSTAV DANNREUTHER, concertmeister; Mr. WILLIAM H. NORTON, organist.

XIV. THE CLOSING CONCERT, "IN A PERSIAN GARDEN"

This concert, consisting of a miscellaneous programme, together with "In a Persian Garden," by Mme. LIZA LEHMAN, was given in Association Hall on the evening of Thursday, May 5, by Mrs. MARY HISSEM-DE MOSS, soprano; Mrs. MARIAN VAN DUYN, contralto; Mr. THEODORE VAN YORX, tenor; Dr. CARL E. DUFFT, basso; Mr. ALEXANDER RIHM at the piano.

XV. A Course of Six Lecture-Recitals on Friday evenings on "Chamber Music of the Classical School," by Mr. THOMAS WHITNEY SURETTE, with the following subjects and assisting artists:

Oct. 2—"Boccherini," Mr. WALTER KING, violin.

Oct. 16—"Haydn," Miss ANNA E. OTTEN, violin; Miss LILLIAN LITTLEHALES, 'cello.

Oct. 23—"Mozart," Miss OTTEN, violin, and Miss LITTLEHALES, 'cello.

Oct. 30—"Beethoven" (I), Miss OTTEN, violin, and Miss LITTLEHALES, 'cello.

Nov. 6—"Beethoven" (II), Miss OTTEN, violin, and Miss LITTLEHALES, 'cello.

Nov. 12—"Schubert," Miss OTTEN, violin; Miss LITTLEHALES, 'cello, and Miss CLARA OTTEN, piano.

XVI. A Lecture-Recital entitled "Music by Erin's Daughters," by Mrs. HELEN O'DONNELL, mezzo-soprano, and Mr. BERNARD O'DONNELL at the piano, on Thursday evening, October 1.

XVII. A Lecture-Recital on "Typical Folk Songs of Various Nations," by Mme. OLGA BURGTORF, soprano, assisted by Mr. HARVEY WORTHINGTON LOOMIS at the piano, Wednesday evening, October 14.

XVIII. A Course of Four Lecture-Recitals by Mr. CARL FIQUÉ, Member of the Executive Committee and of the Advisory Board of the Department of Music, on "Important Chapters from Musical History," on Monday afternoons, as follows:

Jan. 4—"Modern Russian Music: Its Importance and Significance."

Jan. 11—"Beethoven as a Writer of Dramatic and Descriptive Music."

Jan. 18—"Instrumental Music During the Seventeenth and Eighteenth Centuries."

Jan. 25—"Modern French Composers," assisted by Mrs. KATHERINE NOACK-FIQUÉ at the piano.

Feb. 1—"Schumann and his 'David's League,' (David's Bund). A Guide through the Labyrinth of the 'Carneval.'"

Feb. 8—"Gluck's 'Orfeo e Eurydice' and Wagner's 'Tristan und Isolde': The Two Great Musical Love Dramas of Old and Modern Times."

XIX. A Series of Analytical Piano-forte Recitals on

"Studies in Musical Art," by Dr. HENRY G. HANCHETT, of New York, on Wednesday afternoons, as follows:

Mar. 16—"Materials of Musical Compositions," illustrated by selections from Wagner, Chopin, Beethoven and Schumann.

Mar. 23—"Methods of Musical Compositions," illustrated by selections from the works of Bach, Liszt, Saran, Rubinstein, Schumann, Chopin and others.

Mar. 30—"Merits of Musical Compositions," illustrated by selections from the works of Weber, Beethoven, Mendelssohn, Chopin, Grieg, Wagner-Liszt and others.

Apr. 6—"Masters of Musical Compositions," illustrated by selections from the works of Bach, Beethoven, Chopin, Schumann, Grieg and Liszt.

Apr. 13—"Models of Musical Composition," illustrated by selections from the works of Bach, Dussek, Beethoven, Schumann, Dayas and Weber.

Apr. 20—"Modes of Musical Composition," illustrated by selections from the works of Chopin, Beethoven, MacDowell, Grieg, Sherwood and others.

XX. A Special Course of Six Lecture-Recitals on Searchlights in Modern Music Study," by Mrs. MARY GREGORY MURRAY, of Philadelphia, on Tuesday mornings, as follows:

Nov. 10—"Our Children and their Music; Methods, Old and New."

Nov. 17—"The Simplicity of Music."

Nov. 24—"The Four Elements in Music."

Dec. 1—"Power of Expression, and How to Acquire It; Common Sense and Imagination."

Dec. 8—"Modern Practical Uses for Music."

Dec. 15—"The Art of Criticism."

The fee for this Special Course of Lecture-Recitals was \$2.50 for Members and \$4.00 for persons not Members.

XXI. Under the auspices of the Department of Music two evening classes in Sight Singing were organized with Mr. WILBUR A. LUYSTER as instructor, at the Reformed Episcopal Church, Nostrand and Jefferson Avenues, on Thursday evenings.

The first course of ten lessons began October 8 and the second course of ten lessons January 7. The first lecture in each course (October 8 and January 7) was open to all members of the Institute.

The method used by Mr. LUYSTER was the Galin-Paris-Chev .

The special committee having the organization of these Sight Singing Classes in charge comprised Messrs. EDWARD M. BOWMAN, FRANCIS J. MULLIGAN, WILLIAM A. THAYER, JAMES H. DOWNS, EDMUND D. FISHER, Mrs. FRANK M. LUPTON and Miss ALICE M. JUDGE.

The Concerts given by the Department have served two purposes in music, (1) the presentation of the best musical compositions by the best musical talent, and (2) instruction concerning the aims and purposes for which different classes of music have been composed, and the means by which the composer has reached his results.

In order to meet the large expenses connected with the Wednesday and Thursday evening concerts, and also to prevent the overcrowding of Association Hall, in which the concerts are given, admission has been by reserved seat tickets. These were purchased by Members of the Institute at a nominal price of thirty-five or fifty cents for a single concert, according to location, or at the same rates for a course of concerts. When all the seats were not taken by Members, non-members were allowed to purchase them at seventy cents, or \$1.00 a concert.

At the Philharmonic Concerts, Oratorio Concerts and Piano or Violin Recitals, given at the Academy of Music,

or the Baptist Temple, lower rates for reserved seats were secured than are offered for concerts of so high a grade of excellence elsewhere.

XXII. THE LIBRARY of the Department of Music has recently received a most valuable donation from the BROOKLYN PHILHARMONIC SOCIETY, comprising six thousand six hundred and ten bound volumes of musical compositions in sets, for the use of choruses in rendering oratorios and other choral works. Other additions to the Library are needed, and especially in the direction of Orchestral and Oratorio Scores, that will enable the Institute to present to the public, music of the highest standing.

The late JAMES A. H. BELL, Life Member of the Institute, presented his Library of Musical Compositions to the Institute in 1899. The Library contains a large number of works, and is accompanied by a complete catalogue.

DEPARTMENT OF PAINTING

HON. FRANK SQUIER	<i>President</i>
FREDERICK J. BOSTON	<i>First Vice-President</i>
S. F. KNEELAND	<i>Second Vice-President</i>
MISS S. M. BARSTOW	<i>Corresponding Secretary</i>
WILLIAM H. SNYDER	<i>Recording Secretary</i>

Executive Committee

HON. FRANK SQUIER	WALTER SHIRLAW
WEDWORTH WADSWORTH	JOSEPH H. BOSTON
FREDERICK J. BOSTON	MISS S. M. BARSTOW
STILLMAN F. KNEELAND	WILLIAM H. SNYDER
BENJAMIN EGGLESTON	HARRY ROSELAND

The Department of Painting was organized on May 26th, 1890, with forty-four members. The present membership is two hundred and thirty-six.

THE DEPARTMENT OF PAINTING is especially interested in providing the means for Art Instruction for students

of merit, and to this end it has co-operated with the BROOKLYN ART ASSOCIATION in establishing and in maintaining the EVENING ART CLASSES.

THE EVENING ART CLASSES; Mr. JOSEPH H. BOSTON,
INSTRUCTOR

These Classes are conducted for the purpose of furnishing instruction in Drawing, Painting and Composition of a high and thorough character.

The Studio Work comprises classes in Drawing from the Antique, in Drawing and Painting from Life, in Portrait Painting, and in Sketching. The classes are conducted by the same methods as those pursued by the best Art Schools in Europe, and by the Art Students' League in New York.

THE SCHOOL CALENDAR

	TUITION	
	By the Term	By the Year
EVENING LIFE CLASSES FOR MEN, 7.30 to 10 P. M.....	\$12.00	\$48.00
EVENING PORTRAIT CLASS, 7.30 to 10 P. M.....	\$12.00	\$48.00
EVENING ANTIQUE CLASSES FOR MEN AND WOMEN, 7.30 to 10 P. M.....	\$6.00	\$20.00

The Classes occupy studios in the Art Building, 174 Montague street. The School year is divided into four "Quarters," as follows:

FIRST TERM, *October 1 to December 1.*

SECOND TERM, *December 1 to February 1.*

THIRD TERM, *February 1 to April 1.*

FOURTH TERM, *April 1 to June 1.*

Applicants to the Life and Painting Classes must submit drawings from cast or life. No examination is required for admission to the Antique Classes. Promotion from the

Antique Classes is made with the approval of the Instructor, and is based upon the individual merit of the student's work. Students may register at any time.

Students who do not pay for a year's instruction in advance are required to pay for as many Quarters as they are present. When a student enters more than one class a reduction is made in the tuition. Tuitions by the Quarter are also payable strictly in advance.

For further information concerning the Art Classes, inquire of the Instructor at the School, or at the office of the Institute.

The following courses of lectures on art subjects announced under the Department of Fine Arts were open to those who attended the Art Classes regularly. The lectures were all fully illustrated by lantern photographs. The lectures are further described under the Department of Fine Arts.

I. Six lectures on "The Golden Period of the Renaissance," by Miss JULIA M. OSGOOD, of Boston.

II. Six lectures on "The Great Galleries of Art in Europe," by Fräulein ANTONIE STOLLE, of Boston.

III. Six lectures on "English and French Painting," by Prof. JOHN F. WEIR, A.M., of Yale University.

IV. Six lectures on "The Art of the Renaissance, with Special Reference to Florentine Painting," by Mr. E. L. S. HORSBURGH, B.A., of Queen's College, Oxford.

V. Nine lectures on "Italian Art from the 14th to the 17th Century," by Prof. WILLIAM H. GOODYEAR, M.A., Curator of Fine Arts.

VI. Lecture by Miss FLORENCE N. LEVY, Editor of the American Art Manual, on "American Painters."

VII. Lecture on "Whistler," by Prof. JOHN H. NIEMEYER, of Yale University.

The Collections of Paintings at the Museum Building are on exhibition in the galleries on the first and third floors, from 9 A. M. until 6 P. M. each week day, from 7.30 until 9.45 on Thursday and Friday evenings, and from 2 until 6 on Sunday afternoons. Admission to the Galleries of Paintings is free on all days except Mondays and Tuesdays, when the admission to the Museum is 25 cents for adults and 10 cents for children under sixteen years of age.

The Collections have received notable additions during the past year through the generosity of Members and friends of the Institute. The most important of these is the painting by CORNELIS SCHUT (1600-1649) entitled "The Vision of the Dying Virgin," presented to the Institute in May, 1904, by the following trustees and friends, who subscribed towards the purchase price of the painting:

Hon CARLL H. DE SILVER.....	\$360 00
Col. ROBERT B. WOODWARD.....	360 00
Hon. ALFRED T. WHITE.....	360 00
HENRY H. BENEDICT.....	360 00
GEORGE A. HEARN.....	360 00
L. W. LAWRENCE.....	360 00
WILLIAM H. NICHOLS.....	360 00
Hon. CHARLES A. SCHIEREN.....	360 00
HENRY BATTERMAN	360 00
THOMAS E. KIRBY.....	} 360 00
Mr. T. J. BLAKESLEE.....	
	<hr/>
	\$3,600 00

Mr. GEORGE A. HEARN also presented a painting by GEORGE H. BOGERT entitled "Late Afternoon."

With the income of the JOHN B. WOODWARD MEMORIAL FUND, paintings were purchased as follows: "Devil's Glen," by JOSEPH BOSTON, \$350; "Connecticut Pines," by CHARLES WARREN EATON, \$700; a "Landscape," by GEORGE A. TRAVER, \$250.

DEPARTMENT OF PEDAGOGY

Prin. WILLIAM L. FELTER, Ph.D., LL.D. *President*
 Miss SARAH E. SCOTT, M.A. *First Vice-President*
 Dist. Supt. JAMES M. EDSALL *Second Vice-President*
 Prin. HOMER C. BRISTOL, M.A. *Secretary*

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Miss A. E. JOHNSON	Miss JOSEPHINE E. HODGDON
Miss EDNA PATEMAN	Miss EMMA L. JOHNSTON
Miss A. E. WYCKOFF	Miss MARY MOLOW
Mrs. JOHN S. MCKAY	Dr. MARA PRATT CHADWICK
Miss FANNIEBELLE CURTIS	Miss GERTRUDE W. MITCHELL

*General Committee on Art Education*Prof. WALTER S. GOODNOUGH, *Chairman*

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WALTER S. PERRY	LL.D.
FREDERICK J. BOSTON	JOSEPH H. BOSTON
CHARLES M. SKINNER	Prof. A. D. F. HAMLIN
ARTHUR H. FLINT	ALLEN B. DOGGETT
Prof. WILLIAM H. GOODYEAR, M.A.	Mrs. LEROY F. LEWIS
ROBERT J. PATTISON	SUSAN M. ORR
Miss EMMA L. JONES	DORA M. NORTON
Miss JULIA B. HALLOCK	MARY E. STOCKING
Miss IDA E. BOYD	

*Committee on Kindergarten*Miss FANNIEBELLE CURTIS, *Chairman*

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Miss FANNIE S. COMINGS	FREDERIC B. PRATT
Miss LILLIAN W. HARRIS	Mrs. CLARENCE E. MELENEY
Miss M. A. MASON	

*Committee on Physical Culture*Miss ELIZABETH BREMNER, *Chairman*

Miss JESSIE H. BANCROFT	Miss CORA B. CLARK
H. S. PETTIT, M.D.	Miss HARRIETT S. SACKETT
Miss ADA M. MOSELEY	Miss MARTHA S. GARSIDE

The Department of Pedagogy was organized on February 26, 1892, with a membership of one hundred and fifty-eight. Its present membership is eight hundred and thirty-three.

The purpose of the Department, as expressed in its Constitution, is "to promote knowledge of the science and the art of education." The work of the Department comprises:

1. Addresses on educational questions of large and general import.
2. General courses of lectures on subjects in the curricula of studies and on the methods of teaching.
3. Systematic courses of instruction, with directions for reading and study.

4. Conferences and object lessons in teaching.
5. The establishment of a Library of Pedagogy.
6. The formation of a Pedagogical Museum as a part of the Museum of Arts and Sciences.

The work as above designated is conducted under the direction of the Executive Board, by the following Standing Committees:

- 1 Committee on Library and Museum
- 2 Committee on Educational Psychology
- 3 Committee on Art Education
- 4 Committee on Kindergarten
- 5 Committee on Physical Culture
- 6 Committee on THE SCHOOL OF PEDAGOGY

Each committee has regularly appointed meetings for the consideration of matters pertaining to its own individual work, and members are cordially invited to become active members of such committees as they may elect. An account of the work done under the auspices of the Department and its several Standing Committees during the past year is given below:

Jan. 14.—Address by Prof. ANDREW S. WEST, of Princeton University, on "Oxford University."

A Course of Three Lectures on "Moral Development," by Prof. JOHN DEWEY, Ph.D., of the University of Chicago, on Friday afternoons, as follows:

Mar. 11—"What Constitutes Character."

Mar. 18—"The Individual Factor in Moral Development."

Mar. 25—"The Social Factor in Moral Development."

EDUCATIONAL PSYCHOLOGY

• Under the auspices of the Section on Educational Psychology, Mrs. FRANKLIN W. HOOPER, Chairman, a series of Conferences was held on Thursday afternoons, as follows:

Oct. 22—"Symbolic Education," conducted by Mrs. FRANKLIN W. HOOPER and Miss FANNIEBELLE CURTIS.

Nov. 5—"Symbolic Education."

Dec. 10—"Symbolic Education."

Jan. 14—"Symbolic Education."

Feb. 11—"The Meaning of Play" ("Symbolic Education").

Mar. 10—Lecture by Dr. MAXIMILIAN P. E. GROSZMANN, of New York. Subject: "The Problem of the Atypical Child."

Apr. 14—"Home Education."

May 12—"Home Education."

THE KINDERGARTEN SECTION

Under the auspices of this Section, Miss FANNIEBELLE CURTIS, Chairman, the following lectures were given:

Nov. 12—Address by Miss SARAH L. ARNOLD, Dean of Simmons College, Boston. Subject: "Kindergarten Principles in General Education."

Nov. 13—Conference on "The Relation of the Kindergarten to Art and Constructive Work in the Primary Grades," conducted by Miss FANNIEBELLE CURTIS, Director of Kindergartens in Brooklyn.

Dec. 3—Conference on "The Progress in Child Study in England, France, Germany and the United States." Miss FANNIEBELLE CURTIS, Chairman.

Under the auspices of this Section, also, the Annual Convention of Mothers' Clubs and Parents' Associations was held on the afternoon of Thursday, March 24, in Association Hall. Miss CURTIS called the meeting to order and made the address of welcome. The principal address was by Dr. GEORGE E. VINCENT, of the University of Chicago, his subject being "Children versus Grown-ups." Mrs. TUNIS

G. BERGEN, of Brooklyn, also delivered an address on "Some Opportunities in our City."

Besides the foregoing, there was delivered a Course of Five Lectures by Miss SUSAN E. BLOW, on "Dante's Divine Comedy," beginning January 6. This course was given in conjunction with the Department of Philology, under which details are given.

There was also a Class in Kindergarten Games, under Mrs. M. B. B. LANGZETTEL, on ten successive Wednesday afternoons, beginning October 14, at 4 P. M. The price of the Course to Members of the Institute was \$2.00; to persons not Members, \$3.00.

ART EDUCATION

Under the auspices of the Section on Art Education, Prof. WALTER S. GOODNOUGH, Chairman, the following lectures were presented, in conjunction with the Department of Fine Arts:

Oct. 16—Lecture by Mr. CHARLES VOLKMAR, of Metuchen, N. J., on "The Making of Pottery," illustrated by an exhibit of Pottery.

Apr. 29—Lecture by Miss HELENE JOHNSON, of Providence, R. I., on "Indian Basketry," with illustrations of Miss JOHNSON'S work.

PHYSICAL CULTURE

Under the auspices of this Section special courses of instruction in "Physical Training" were given under the direction of Miss ELIZABETH BREMNER, Chairman of the Section, and Miss ADA MOSELEY, Director of Physical Training at the Berkeley Institute, Brooklyn.

There were three classes in "Physical Training" under the auspices of the Institute this season—a Class for Girls, a

Class for Women, and a Class for Business Women, each class having two terms of twenty lessons each.

The first term of the Girls' Class began October 19, 1903, and closed January 7, 1904, with a membership of twenty-six and an average attendance of nineteen. The second term began January 11, 1904, and closed March 21, 1904, with a membership of twenty and an average attendance of fifteen.

The Women's Class began October 20, 1903, and closed January 15, 1904, with a membership of forty-four, average attendance twenty-five. Second term began January 19, 1904, membership thirty-five, average attendance nineteen.

The Business Women's Class began its first term on October 20, 1903, and closed January 15, 1904, with a membership of thirty-five and an average attendance of twenty-one. The second term began January 19, 1904, and closed April 5, 1904, with average attendance of fifteen and a membership of twenty.

THE SCHOOL OF PEDAGOGY

During the school year 1897-8 the Institute was in the receipt of a large number of inquiries, by letter and in person, from teachers in Brooklyn who sought thorough, systematic and high-grade work in the Principles of Education, the History of Education, Psychology as Applied to Teaching, School Management and Discipline, the Elements of Psychology, English Literature, and other subjects, a fuller knowledge of which would be helpful to them in their school work and in enabling them to secure advancement in the grade of their work. These inquiries were followed by a communication, signed by many teachers, petitioning the Institute to establish such Courses of Instruction as are mentioned above.

The several communications were referred to the Departments of Pedagogy and Psychology, by the authority of which a joint committee was appointed to prepare a plan for the establishment of a School of Pedagogy. This Committee consisted of Prin. ALMON G. MERWIN, Pd.D., Chairman; Prin. WILLIAM L. FELTER, Ph.D., LL.D., Assoc. Supt. CLARENCE E. MELENEY, Assoc. Supt. EDGAR DUBS SHIMER, Ph.D., Assoc. Supt. JAMES M. EDSALL, Prof. FREDERICK W. OSBORN, M.A., Prof. WALTER L. HERVEY, Ph.D., Miss SARAH E. SCOTT, Miss EMMA L. JOHNSTON, Principals L. H. WHITE, Ph.D., WILLIAM L. SPRAGUE and WILLIAM McANDREW. The Committee had many meetings, obtained courses of study from the better Schools of Pedagogy in the country, conferred with President SETH LOW, LL.D., of Columbia University, and Prof. JAMES E. RUSSELL, Ph.D., Dean, and members of the Faculty of Teachers College of Columbia University; with Prof. EDWARD R. SHAW, Ph.D.,

and Prof. EDWARD F. BUCHNER, Ph.D., of the School of Pedagogy of New York University; with EDWARD G. WARD, then Superintendent of the Brooklyn Schools, and with Supt. WILLIAM H. MAXWELL, Ph.D., of the New York City Schools.

The plan prepared was afterwards approved by the Departments of Pedagogy and Psychology, and by the Governing Boards of the Institute, Columbia University and the University of New York, respectively. The courses of instruction were given in Brooklyn with the co-operation of Teachers College of Columbia University and the School of Pedagogy of New York University.

Six Courses of Instruction were conducted during the year 1898-9, twelve Courses in 1899-1900, fourteen Courses in 1900-1, fourteen in 1901-2, fifteen in 1902-3, and fifteen in 1903-4. The number of persons registered in the fifteen classes the sixth or last year was four hundred and eleven, or an average of twenty-seven in a class.

The Classes in the School of Pedagogy occupy rooms in the Library Building, 201 Montague street, and in the Art Building, 174 Montague street. The class rooms are provided with chairs, each having a book-rest suitable for use in taking notes.

COMMITTEE IN CHARGE OF THE SCHOOL OF PEDAGOGY

Prin. ALMON G. MERWIN, Pd.D., *Chairman*

Assoc. Supt. JAMES M. EDSALL	Dist. Supt. JAMES J. McCABE
Prin. WILLIAM L. FELTER, Ph.D., LL.D.	Prin. MARY A. O'NEIL Prof. FREDERICK W. OSBORN, M.A.
Prin. EMMA L. JOHNSTON, A.B.	Miss SARAH E. SCOTT, M.A.
Miss CAROLINE B. LEROW	Assoc. Supt. EDGAR DUBS SHIMER, Ph.D.
Assoc. Supt. CLARENCE E. MELE- NEY	Prin. WILLIAM L. SPRAGUE
Prin. WILLIAM McANDREW	Prin. LASELLE H. WHITE, Ph.D.
Prin. LEWIS H. TUTHILL	Prin. FREDERICK L. LUQUEER
Prin. ARTHUR C. PERRY, JR.	Prin. WILLIS D. HUNTLEY

COURSES OF INSTRUCTION

In Co-operation with

TEACHERS COLLEGE, COLUMBIA UNIVERSITY

I. "The History and Principles of Education." Lectures, required readings, reports, and discussions. Prof. PAUL MONROE, Ph.D., of Teachers College, Columbia University. One hour a week for thirty weeks, on Monday evenings, beginning October 12 at 8 o'clock.

II. "Primary Instruction." Lectures, discussions, recitations. Prof. FRANK M. McMURRY, Ph.D., of Teachers College. Thirty sessions of one hour each. Tuesday evenings at 8 o'clock, beginning October 13.

III. "Modern Educational Theory." Lectures, readings, discussions, papers. JOHN A. MAC VANNEL, Ph.D., of Teachers College. Thirty sessions of one hour each. Saturday mornings at 10 o'clock, beginning October 17.

IV. "Nineteenth Century Poetry." Recitations, conferences, readings, reports. Prof. FRANKLIN T. BAKER, A.M., of Teachers College, Columbia University, on Wednesday afternoons at 4.15, beginning October 14. Thirty sessions of one hour each.

V. "A Study in Typical Forms of Literature." Lectures, recitations, readings. Prof. FRANKLIN T. BAKER, A.M., of Teachers College, Columbia University, on Wednesday evenings at 8'clock, beginning October 14. Thirty sessions of one hour each.

VI. "A Study of Shakspeare." Lectures, readings, discussions, papers. Prof. FREDERICK H. SYKES, Ph.D., of Teachers College. Thirty sessions of one hour each, on Monday afternoons, at 4.15 o'clock, beginning October 12.

VII. "American Literature." Lectures, readings, discussions, papers. JOHN A. MAC VANNEL, Ph.D., of Teachers College. Thirty sessions of one hour each. Saturday mornings at 11 o'clock, beginning October 17.

VIII. "The Teaching of Elementary Mathematics." Lectures, discussions, exercises, papers. Prof. DAVID E. SMITH, Ph.D., of Teachers College. Thirty sessions of one hour each, on Tuesday afternoons, at 4.15 o'clock, beginning October 13.

IX. "The Development of Instrumental Music." Lectures, piano and other illustrations, readings, papers. Mr. THOMAS WHITNEY SURETTE, of Teachers College. Thirty sessions of one hour each, Saturday afternoons at 3 o'clock, beginning October 17.

X. "A Course in Elementary German." Reading, grammar, and composition. WILLIAM ADDISON HERVEY, A.M., Instructor in German Language and Literature in Columbia University. A One Year's Course. Sixty sessions of one and one-half hours each. Monday and Thursday afternoons from 4.15 until 5.45 o'clock, beginning October 12.

XI. "Intermediate Course in German." Intended for those students who have taken the preceding course or its equivalent. WILLIAM ADDISON HERVEY, A.M., of Teachers College. Thirty sessions of two hours each, Thursday evenings, 7.45 to 9.45 o'clock, beginning October 15.

The foregoing courses are equivalent to courses given in Teachers College, Columbia University, Manhattan. Examinations are given at the middle and at the end of each year to those who take the courses. Those who complete a course satisfactorily are given a certificate by the Institute stating what work has been done. Those who desire to receive credit for their work at Teachers College should

matriculate at Teachers College (if they have not already done so) by registering at the College and paying the Matriculation Fee of \$5.00. Students who have registered and matriculated at Teachers College, and who desire credit at Teachers College for a given course, must pay to Teachers College \$5.00, in addition, for each thirty weeks instruction of one hour per week.

Persons desiring to pursue any one of the foregoing courses, who have not a teacher's license, certificate or diploma, but who are otherwise well qualified to pursue a course of study in the School will be admitted as *Visiting Members* of a class on the same terms as those in regular standing in the class. Visiting Members may, upon application to the Instructor, be excused from the mid-year and final examinations.

COURSE OF INSTRUCTION

In Co-operation with

THE SCHOOL OF PEDAGOGY, NEW YORK UNIVERSITY

XII. "American History and Civics." Readings, conferences, discussions. Prof. J. P. GORDY, Ph.D., LL.D., of the School of Pedagogy, New York University. A One Year's Course. Thirty sessions of one hour each, at 4.15 P. M., beginning on Thursday, October 15.

Those who complete the above course (XII) satisfactorily will be given a certificate by the Institute stating what work has been done, and also will be credited by the School of Pedagogy of New York University with the course towards a Diploma or Degree granted by that University, in case they comply with the conditions for registration and matriculation in the University School of Pedagogy.

Persons desiring to pursue Course XII who have not the

teacher's license, certificate, or diploma, but who are otherwise well qualified to pursue a course of study in the School, will be admitted as *Visiting Members* of a class on the same terms as those in regular standing in the class.

ADDITIONAL COURSES

IN

THE SCHOOL OF PEDAGOGY

XIII. A Course of Instruction in "Old Testament History," thirty lessons; Wednesday mornings, beginning October 14, under Miss SABRA GRANT AYRES, of New York.

XIV. "A Course in Oral English." Class and individual instruction. HENRY GAINES HAWN, President of the National Association of Elocutionists. Thirty sessions of one hour each, Thursday evenings at 8.15 o'clock, beginning October 15.

GENERAL INFORMATION CONCERNING THE SCHOOL OF PEDAGOGY

Persons desiring to register for any Course of Instruction may do so at the office of the Institute, 502 Fulton street, after September 6, or at the Library Building, 201 Montague street, previous to the opening session of a class.

Certificates of attendance will be issued to all persons who pursue courses of study in the School of Pedagogy.

Certificates will be issued by the Institute to all persons who fulfill the requirements for admission to a course of study and who complete the work of a course in a manner satisfactory to the instructor.

Tuition Fees must be paid in advance and at the time of Registration. For Members of the Institute there is a reduction of \$2.00 in the amount of the fee for each thirty hour Course of thirty weeks.

V. May 10—The Herbert Spencer Memorial Meeting. Memorial address by President JACOB G. SCHURMAN, LL.D., of Cornell University. The Rev. ALBERT J. LYMAN, D.D., presided and made the opening address.

DEPARTMENT OF PHOTOGRAPHY

WILLIAM B. COLSON	<i>President</i>
A. C. SCRIMGEOUR	<i>Vice-President.</i>
JOSEPH L. HITZ	<i>Recording Secretary</i>
W. E. MACNAUGHTON	<i>Corresponding Secretary</i>
JAMES H. KELLY	<i>Treasurer</i>

Executive Committee and Committee on Rooms and Appliances

WILLIAM B. COLSON, <i>Chairman.</i>	
A. C. SCRIMGEOUR	HENRY D. KING
W. E. MACNAUGHTON	JOSEPH L. HITZ
HENRY COUTANT	JAMES H. KELLY
LANDON GURLITZ	JAMES W. KENT
HENRY L. UNDERHILL	STEPHEN S. PALMER
SAMUEL HOLDEN	WILLIAM A. BOGER
Prof. FRANK A. GALLUP, Ph.D.	ROBERT B. MONTGOMERY
HENRY A. CARLY	PERCY G. FARQUHARSON
JAMES MCKENDRICK	

Committee on Exhibitions and Prints

JAMES W. KENT, <i>Chairman</i>	
W. E. MACNAUGHTON	SAMUEL HOLDEN
ROBERT B. MONTGOMERY	PERCY G. FARQUHARSON
LANDON GURLITZ.	

Committee on Lantern Slides

SAMUEL HOLDEN, <i>Chairman</i>	
W. E. MACNAUGHTON	ROBERT B. MONTGOMERY

Committee on Lectures

STEPHEN S. PALMER, <i>Chairman</i>	
JAMES W. KENT	ROBERT B. MONTGOMERY
W. E. MACNAUGHTON	SAMUEL HOLDEN
WILLIAM B. COLSON, <i>ex-officio</i>	

*House Committee*JAMES H. KELLY, *Chairman**Committee on Brooklyn and Long Island Slides*ROBERT B. MONTGOMERY, *Chairman*

The Department of Photography was organized March 26, 1889, with thirty-four members. The present membership is five hundred and twenty-five. The lectures, conferences and meetings during the past season have been as follows :

I. *Oct. 21*—Lecture by Mr. J. HORACE MCFARLAND, of Harrisburg, Pa., on "Flowers and Trees in their Haunts," illustrated by lantern photographs.

Nov. 13—Lecture by Mr. HENRY G. PEABODY, of Boston, on "In the Footsteps of Cortez," illustrated by lantern photographs.

Nov. 20—Lecture by Mr. FREDERICK E. IVES, of New York and Philadelphia, on "The Three-Color Process in Photography," illustrated by photographic illustrations.

Dec. 8—Lecture by Mr. H. SNOWDEN WARD, of London, England, on "The Real Dickens Land," illustrated by 100 lantern photographs especially made by CATHARINE WEED BARNES WARD.

Jan. 8—Lecture by Rev. H. H. PARRY, of Brooklyn, on "Picturesque Wales and Her People," illustrated by lantern photographs.

Apr. 26—Lecture by Mr. CHARLES A. HATHAWAY, of Taunton, Mass., on "Wild Flowers of the Woods and Waters of New England," illustrated by carbon lantern photographs taken by the lecturer.

May 12—Lecture by Rev. HENRY R. ROSE, of Newark, on "Evangeline, the Land and the Story," illustrated by lantern photographs.

II. Besides the foregoing lectures, the following Special Courses were given under the auspices of this Department

and the Department of Geography, under which they are fully described:

1. A Course of Six Lectures, illustrated by lantern photographs and motion pictures, taken with the telephoto-lens and colored as in nature, by Mr. DWIGHT L. ELMENDORF, on Saturday afternoons and evenings, October 10, 17, 24, 31, November 7, and 14.

2. Two Lectures, illustrated by lantern slides from photographs, by Mr. HARRY DEWINDT, F.R.G.S., on Friday evening, November 27, and Saturday afternoon, November 28.

3. A Course of Four Lectures, described and illustrated by lantern photographs and characteristic songs, by Mr. NAT M. BRIGHAM, of New York, on Saturday afternoons and evenings, January 16, 23, 30 and February 6.

4. A Course of Five Lectures, illustrated by colored photographs and motion pictures projected by the chronomato-graph, by Mr. BURTON HOLMES, of Chicago, on Wednesday afternoon and evenings, February 24, March 2, 9, 16 and 23.

5. Two Lectures, illustrated by lantern slides from photographs and motion pictures, by Mr. DWIGHT L. ELMENDORF, on Saturday afternoons and evenings, March 26 and April 2.

6. An Illustrated Lecture by Miss ZAIDA BEN-YUSUF, of New York, Saturday evening, April 16. The illustrations were from photographs taken by the lecturer and colored as in the original.

III. On the evenings named below there were exhibitions of lantern photographs at the Department Rooms:

Oct. 9—Exhibition of 100 Lantern Slides made by Members of the ORANGE CAMERA CLUB, Orange, N. J., together with Slides made by Members of the Department during the past season.

Nov. 13—Mr. S. A. BRIGGS, of Brooklyn, exhibited and

described a set of 100 slides made by himself and entitled "California and the Old Franciscan Missions."

Dec. 11—Exhibition of Lantern Slides made by Mr. M. W. SEAMAN, of the CAMERA CLUB OF NEW YORK.

Feb. 2—Exhibition of Lantern Photographs by Mr. J. H. FERGUSON, illustrating a trip to Florida.

Feb. 12—Exhibition of Lantern Photographs by Mrs. CYRIL H. BURDETT, illustrating a Vacation Trip to Shore and Mountain.

Mar. 11—Exhibition of Lantern Slides of Italy by Prof. FRANK A. GALLUP, of Packer Collegiate Institute. (The slides were made from snap-shots taken by Mr. Gallup.) Also exhibition of Choice Prints, loaned by Photo Era Publishing Co. of Boston.

May 20—Exhibition of Lantern Slides. "From Moosehead to St. John's by Canoe. Camping Scenes in Northern Maine," with description and remarks by Mr. JAMES McKENDRICK.

IV. *Dec. 18*—Informal Lecture by Mr. A. K. BOURSAULT, of New York City. Subject: "Modern Technique in Photography," illustrated by lantern photographs.

V. Exhibitions of Photographic Prints were held in the Department Rooms on the following dates:

Nov. 6—Loan Exhibition of Photographic Prints by Members and Friends of the Department.

Jan. 29—Mid-winter Exhibition of Prints by Members. Loan Exhibition of Photographs—the work of Mr. W. A. BOGER.

VI. Conferences were held in the Department Rooms, as follows:

Oct. 30—Conference on "Brush Development of Platinum Paper," conducted by Mr. FREDERICK C. CLARKE, of New

York. Members were requested to bring one or more Platinum prints from their best negatives for development.

Nov. 27—Conference on "The Carbon Process," conducted by Mr. HENRY COUTANT.

Jan. 15—Conference on "The Gum Bi-Chromate Process," conducted by Messrs. JAMES W. KENT and HENRY L. UNDERHILL.

Feb. 26—Conference on "Composition in Photography," conducted by Mr. JOSEPH L. HITZ, Secretary of the Department.

Mar. 25—Conference on "The Making of Lantern Slides," conducted by Mr. P. G. FARQUHARSON.

Apr. 15—Conference on "Bromide Enlarging," conducted by Mr. WILLIAM B. COLSON, President of the Department.

THE FOURTEENTH ANNUAL EXHIBITION

VII. The Fourteenth Annual Exhibition of Photographic Prints and Lantern Slides was held at the Art Galleries, 174 Montague street, from April 23 to 30, inclusive. The following members exhibited photographic work: AVEL WENTWORTH CROOK, HARRY COUTANT, Miss M. C. CONBIT, Mrs. C. H. BURDETT, HENRY A. CARLY, W. A. BOGER, W. B. COLSON, HORACE A. DWYER, FREDERICK WILLIS DAVIS, P. G. FARQUHARSON, ARTHUR H. FLINT, LANDON GURLITZ, Prof. FRANK A. GALLUP, Ph.D., JOSEPH L. HITZ, SAMUEL HOLDEN, MYERS R. JONES, JAMES H. KELLY, HARRY DOUGLAS KING, JAMES W. KENT, HENRY KOSTER, Jr., H. K. LANDIS, HENRY HOYT MOORE, Dr. HENRY B. MINTON, W. E. MACNAUGHTON, ROBERT B. MONTGOMERY, JOHN PETERS, S. S. PALMER, H. S. REDFIELD, H. L. UNDERHILL, ARCHIBALD C. SCRIMGEOUR, EDWIN T. ROSS, C. M. SHIPMAN, H. H. WAUGH, M.D.

The total number of exhibitors was 33, and the total number of exhibits was 245.

The awards were:

ARCHITECTURE

First—"Washington Arch at Night," by SAMUEL HOLDEN.

Second—"The Capitol—A Misty Day," by W. A. BOGER.

Honorable Mention—"Interior Architecture," by H. S. REDFIELD; "In Crete," by Prof. FRANK A. GALLUP; "Subiaco, Italy," by Prof. FRANK A. GALLUP.

MARINES

First—"In the Gloaming," by JOSEPH L. HITZ.

Second—"Marine Poster," by P. G. FARQUHARSON.

Honorable Mention—"A Fair Wind," by SAMUEL HOLDEN; "The Crest of the Wave," by ARTHUR H. FLINT; "The Lifeboat," by LONDON GURLITZ; "In the Doldrums," by HARRY COUTANT.

LANDSCAPES

First—"Haystacks," by W. A. BOGER.

Second—"The Lonely Hut," by SAMUEL HOLDEN.

Honorable Mention—"November Sunset," by W. A. BOGER; "The Top of the Hill," by W. A. BOGER; "Moonlight," by HENRY A. CARLY; "The Age of Steel," by HENRY HOYT MOORE; "Landscape," by W. B. COLSON; "Sunset Glow," by JAMES W. KENT; "By the Water's Edge," by ARCHIBALD C. SCRIMGEOUR; "The Old Mill Wheel," by Dr. HENRY B. MINTON; "The Passing of a Winter Storm," by C. M. SHIPMAN.

LANDSCAPES WITH FIGURES

First—"The Master of Hounds," by P. G. FARQUHARSON.

Second—"The Plowed Field," by ARCHIBALD C. SCRIMGEOUR.

Honorable Mention—"Eager," by W. A. BOGER; "The Gardener," by W. E. MACNAUGHTON; "At the Planer," by H. S. REDFIELD; "Sta Aspasso," by P. G. FARQUHARSON.

FLOWERS

First—"Brides," by H. S. REDFIELD.

Second—"Wild Carrot," by H. S. REDFIELD.

Honorable Mention—"Flower Study," by ARTHUR H. FLINT; "Jonquils," by W. E. MACNAUGHTON; "Daisies," by ARCHIBALD C. SCRIMGEOUR.

GENRE

First—"Fighting Fire," by JAMES W. KENT.

Second—"The Wheelwright," by H. L. UNDERHILL.

Honorable Mention—"A Good Drive," by JAMES W. KENT; "Too Hot," by HENRY HOYT MOORE; "Little Italy," by W. E. MACNAUGHTON.

PORTRAITS

First—"Portrait," by W. E. MACNAUGHTON.

Second—"Mother and Daughter," by ARCHIBALD C. SCRIMGEOUR.

Honorable Mention—"Interested," by EDWIN T. ROSS; "Portrait," by JOSEPH L. HITZ; "Sketch," by ARTHUR H. FLINT; "Laddie," by ARCHIBALD C. SCRIMGEOUR; "Mike," by ROBERT B. MONTGOMERY; "Old Dog," by MYERS R. JONES; "Puppies," by MYERS R. JONES.

STILL LIFE

First—"Still-Life Study," by H. S. REDFIELD.

The First Award for the finest collection of prints was received by JAMES W. KENT for fifteen prints in gum bichromate.

The Second Award went to a collection of twelve prints, also in gum, by SAMUEL HOLDEN.

The Third Award was received by W. A. BOGER for a collection of fourteen prints in bromide.

"The Master of Hounds," by P. G. FARQUHARSON, received the award for the most artistic print in the exhibition.

The Board of Judges consisted of CHARLES S. BERG, RUDOLF EICKEMEYER, Jr., and WILLIAM D. MURPHY.

The Exhibition Committee consisted of JAMES W. KENT, WILLIAM B. COLSON, W. E. MACNAUGHTON, ARTHUR FLINT, LONDON GURLITZ, ROBERT B. MONTGOMERY and SAMUEL HOLDEN.

VIII. A COLLECTION OF PHOTOGRAPHS OF LONG ISLAND. The Department is now, and has been for some years past, engaged in making a collection of lantern slide photographs of Brooklyn, its vicinity, and Long Island, from Fort Hamilton to Montauk Point. This collection deposited at the Museum Building now numbers upwards of four hundred and fifty. Contributions to this collection are invited and will be welcomed from *all* who are interested in the scenery, history, architecture, geology, or inhabitants of this Borough or of Long Island. The Chairman of the Committee in charge of this Collection for the coming year is Mr. ROBERT B. MONTGOMERY, 164 Lafayette avenue, Brooklyn.

IX. The Department of Photography is to be congratulated upon the excellent facilities for work that have been provided for it, and for the valuable provisions that have been made for the instruction and enjoyment of all its members.

The Department has fitted up and furnished a suite of rooms at 201 Montague street, next door to the Brooklyn Library, for the exclusive use of its members. The suite includes a large studio room 25x32 feet, which is provided with a good skylight, 10x14 feet, and is excellently adapted for studio photography; a dark room, provided with all the accessories necessary for the development of photographs, and an enlarging room, with good north light. The rooms contain appliances adapted to the best work in photography.

Members of the Department who desire to make practical use of these rooms or of any of the apparatus belonging to

the Department, can do so by the payment of the small fee of one dollar and fifty cents (\$1.50) per year. Applications for the use of the rooms and apparatus should be made by mail to the Chairman of the House Committee, Department of Photography, 201 Montague street.

The meetings at the Department Rooms are open to all of the Members of the Department. The reading room contains the best standard works and current periodicals on photography.

A Tisdell Lantern has been provided for use by the Members of the Department, and a new Beseler Electric Lamp has been fitted to the Lantern and supplied with electric current.

The Department holds meetings of its members in its rooms on Friday evenings, at eight o'clock, from October to May, inclusive. These meetings are occupied by short papers on the technique of Photography and on new methods and devices; by conferences on matters of scientific or artistic interest, and by exhibits of lantern slides, negatives and prints.

DEPARTMENT OF PHYSICS

Prof. JOHN S. MCKAY, Ph.D.	<i>President</i>
Prof. WILLIAM C. PECKHAM, M.A.	<i>Vice-President</i>
RUDOLPH SELDNER, Ph.B.	<i>Secretary</i>

Executive Committee

Prof. JOHN S. MCKAY, Ph.D.	RUDOLPH SELDNER, Ph.B.
Prof. WM. C. PECKHAM, M.A.	J. P. WINTRINGHAM
Prof. SAMUEL SHELDON, Ph.D.	WALLACE GOOLD LEVISON, B.Sc.
Prof. E. R. VON NARDROFF, Ph.D.	Prof. ALBERT W. AREY
WALLACE P. GROOM	WILLIAM CLINTON BURLING
	DOUGLAS BURNETT, B.S.

The Department was organized in May, 1888, with thirty-six members. The present membership is one hundred and sixty-two.

The lectures given during the past season have been as follows:

I. A Course of Eight Lectures on "Recent Discoveries in Physical Science and their Relation to Theories of Matter and Energy," illustrated by practical demonstrations, by Prof. JOHN S. MCKAY, Ph.D., President of the Department, on Saturday afternoons, as follows:

Sept. 26—"Atoms and Molecules: The Kinetic Theory of Matter."

Oct. 3—"Osmose and Diffusion: Solutions and Osmotic Pressure."

Oct. 10—"The Dissociation of Matter: Ions and Ionization."

Oct. 17—"Atoms of Electricity: Electrons and Co-electrons: Kathode Rays and Lenard Rays."

Oct. 24—"Radium and Radio-Activity: The Flight of Electrons."

Oct. 31—"Electric Ether-waves: Vibrations of Electrons: The X-Ray and Wireless Telegraphy."

Nov. 7—"Electronic Theory of Electricity: Separation and Motion of Electrons."

Nov. 14—"The Electronic Theory of Matter: Inertia, Cohesion, Chemism and Valance."

II. A Course of Six Lectures on "The Electron Theory; its Experimental Basis and Application to Physics and Chemistry," illustrated by experimental demonstrations by Prof. ERNEST R. VON NARDROFF, D.Sc., of Erasmus Hall High School, on Monday evenings, as follows:

Nov. 16—"The Atomic Nature of Matter and of Electricity."

Nov. 23—"Kathode Rays, or Matter in the Fourth State."

Nov. 30—"The X-Rays of Roentgen and the N-Rays of Blondlot."

Dec. 7—"Zeeman's Phenomenon and the Electrical Nature of Light."

Dec. 14—"Radium and its Revelations."

Dec. 21—"Physical and Chemical Phenomena Viewed in the Light of the Electron Theory."

III. A Course of Six Lectures on "The Phenomena of Optics and their Causes," illustrated by experimental demonstrations, by Prof. WILLIAM C. PECKHAM, A.M., of Adelphi College, on Monday evenings, as follows:

Feb. 29—"The Phenomena of Our Seeing."

Mar. 7—"The Phenomena of Color and the Various Methods of Producing It."

Mar. 14—"The Phenomena of the Spectrum by Refraction and Diffraction, with Its Application to Measuring the Motion of the Stars."

Mar. 21—"The Phenomena of Interference, Fluorescence, and Healing by the Action of Light."

Mar. 28—"The Phenomena of Polarization."

Apr. 4—"The Phenomena of Radium and Related Substances."

IV. A Course of Six Illustrated Lectures on "Astronomical Geography," by Prof. JOHN S. MCKAY, Ph.D., on Saturday afternoons, as follows:

Apr. 2—"The Earth's Beginnings."

Apr. 9—"Measurements of the Earth—Size, Shape, Mass, Density, Latitude and Longitude."

Apr. 16—"The Earth's Rotation and Results."

Apr. 23—"The Earth's Revolution and Results."

Apr. 30—"Precession of the Equinoxes."

May 7—"Tides and Their Effects."

V. Other Lectures on Physics or on some branch of Physical Science are announced under the Departments of Electricity, Engineering, and Chemistry. The Department

of Physics joined with these Departments in some portions of their work during the year.

VI. Among the means of illustrating the lectures of the Department and of the Institute are a Clark electric arc lamp for use in the large Hawkrigde lantern, and five Bessler arc lamps for use in the five Tisdell lanterns. In fully ninety-five per cent. of the illustrated lectures given during the year, the electric light has been used in the lanterns in preference to the lime light. The collection of lantern slides has been increased during the past twelve months by the manufacture of about two hundred for the use of the Departments.

Recent additions to the apparatus of the Department include a Waite and Bartlett Static Machine with twelve revolving glass plates and numerous attachments.

DEPARTMENT OF POLITICAL SCIENCE

HON. JOHN A. TAYLOR

President

PRES. CHARLES H. LEVERMORE, Ph.D.

CONRAD V. DYKEMAN

} *Vice-Presidents*

FRANCIS H. LUDLOW, B.A.

Secretary

Executive Committee

HON. JOHN A. TAYLOR

PRES. CHAS. H. LIVERMORE, Ph.D.

HARRINGTON PUTNAM

STEPHEN P. STURGES

HON. FREDERICK W. HINRICHS

CONRAD V. DYKEMAN

Prof. WILLIAM A. DUNNING

FRANCIS H. LUDLOW, B.A.

BENJAMIN E. SEAVER

CHARLES CLAGHORN, M.A.

Prof. H. DELMAR FRENCH, M.A., Litt.D.

The Department of Political Science was organized on December 17, 1889, with one hundred and sixteen members. The present membership is seven hundred and eighty-three. The work of the Department is under the general direction of the Executive Committee. The meetings and work during the past year have been as follows:

I. *Nov.* 4—(First General Meeting of Institute Mem-

bers: Season 1903-1904.) Address by the Rev. EDWARD EVERETT HALE, D.D., LL.D., of Boston. Subject: "The Fundamental Politics of the American Constitution." Rev. ALBERT J. LYMAN, D.D., President of the Council, presided.

II. Two Addresses on "The Application of Ethical Principles in our Municipal Life," by Prof. FELIX ADLER, Ph.D., LL.D., of New York City, as follows:

Oct. 7—"The Political Regeneration of Great Cities and the Means by which It is to be Accomplished" (I).

Oct. 15—"The Political Regeneration of Great Cities and the Means by which It is to be Accomplished" (II).

III. A Series of Four Addresses on "Social Ethics in our Large Cities," by the Rev. W. S. RAINSFORD, D.D., Rector of St. George's Church, Manhattan, on Tuesday evenings, as follows:

Nov. 10—"Some Needs of New York."

Nov. 17—"New York's Young Working People."

Nov. 24—"The Church of the Future."

Dec. 1—"The Duties of Citizenship."

IV. A Course of Six Illustrated Lectures on "The Improvement of the Conditions of Life in Cities," by WILLIAM H. TOLMAN, Ph.D., Director, and Dr. JOSIAH STRONG, President of American Institute of Social Service, on Tuesday evenings, as follows:

Jan. 5—"The Problem of the City Child."

Jan. 12—"The Evils of the Tenement, and Improved Housing."

Jan. 19—"A Study of the Modern Saloon, and its Substitutes."

Jan. 26—"Public Baths and Wash Houses."

Feb. 2—Lecture by Dr. JOSIAH STRONG, "Industrial Betterment."

Feb. 9—"Recreation in Cities."

V. A Course of Six Lectures on "The Situation in the Far East," by TOYOKICHI IYENAGA, Ph.D., on Monday evenings, as follows:

Feb. 15—"Significance of the Far Eastern Question."

Feb. 29—"The China-Japan War."

Mar. 7—"China and the Powers."

Mar. 14—"The Problem of China."

Mar. 21—"Commerce and Industry of the Far East."

Mar. 28—"The Russo-Japanese Struggle."

VI. *May 3*—At the request of many who were unable to hear the lecture when first delivered, Dr. TOYOKICHI IYENAGA, of Japan, repeated his lecture (with modifications) on "The Russo-Japanese Struggle," with a survey of the situation in the far East.

VII. A Series of Four Addresses on "Changing Ideals of Woman's Position in the Industrial, Social, Educational, and Civic World," by the Rev. ANNA HOWARD SHAW, of Philadelphia, on Friday afternoons, as follows:

Feb. 19—"Woman as a Factor in Social Development."

Feb. 26—"The Economic Value of Woman's Work."

Mar. 4—"The Awakening of the Civic Conscience."

Mar. 11—"The Power of the Incentive."

VIII. Two Lectures by Rev. ANNA GARLIN SPENCER, of New York, on Friday afternoons, as follows:

Apr. 8—"Woman's Contribution to Educational Interests."

Apr. 15—"New Professions Open to Women."

IX. A Course of Six Illustrated Lectures on "Japan, its People, History and Institutions," by Dr. TOYOKICHI IYENAGA, on Thursday afternoons, as follows:

Feb. 18—"The Land and Sea of the Mikado's Empire."

Feb. 25—"Feudal Regime and Society of Japan."

Mar. 3—"Advent of Commodore Perry and the Restoration."

Mar. 10—"Japan's Renaissance, or Reforms of the Meiji Era."

Mar. 17—"Retrospect and Prospect of Religion in Japan."

Mar. 24—"Customs and Manners of Japan."

X. Two Illustrated Lectures by Mr. THEODORE CHOPOURIAN, a native of Constantinople:

Dec. 28—"Constantinople and the Turks."

Jan. 20—"The Countries about the Eastern Mediterranean."

XI. A Special Course of Instruction in "American History and Civics," was given under Prof. J. P. GORDY, Ph.D., LL.D., of New York University, on Thursday afternoons at 4.15 o'clock. This course consisted of thirty sessions of one hour each, beginning October 15.

XII. A Special Course of Instruction in "The History of the City of New York," by Mrs. HELEN WARREN AUGER, of Jamaica, New York. This course consisted of ten lessons, on Tuesdays, at 4 P. M., beginning October 20.

DEPARTMENT OF PSYCHOLOGY

Prin. LASSELLE H. WHITE, Ph.D.	<i>President</i>
Prof. FREDERICK W. OSBORN, M.A.	} <i>Vice-Presidents</i>
Prin. FREDERICK L. LUQUEER	
Miss SARAH E. SCOTT, M.A.	<i>Secretary</i>

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Miss EDNA PATEMAN	Miss MARY MOLOW
Miss GERTRUDE W. MITCHELL	

The Department of Psychology was organized April 29, 1890, with sixty-eight members. The present membership is three hundred and seventy-seven.

Under the auspices of the Department the following conferences were held:

I. A Series of Conferences, under the auspices of the SECTION ON EDUCATIONAL PSYCHOLOGY, Mrs. FRANKLIN W. HOOPER, Chairman, was held in conjunction with the Department of Pedagogy, on Thursday afternoons, as follows:

Oct. 22—"Symbolic Education."

Nov. 5—"Symbolic Education."

Dec. 10—"Symbolic Education."

Jan. 14—"Symbolic Education."

Feb. 11—"The Meaning of Play."

Mar. 10—"Lecture by Dr. MAXIMILIAN P. E. GROSZMANN, of New York, on "The Problem of the Atypical Child."

Apr. 14—"Home Education."

May 12—"Home Education."

A Course of Six Illustrated Lectures on "The Mind of Primitive Man," by Prof. FRANZ BOAZ, Ph.D., Curator of Ethnology, American Museum of Natural History, on Friday afternoons, beginning March 25. This course was delivered in conjunction with the Department of Ethnology, under which the subjects of the individual lectures are given.

DEPARTMENT OF ZOÖLOGY

ALFRED G. MAYER, S.D.

President

WILLIAM C. BRAISLIN, M.D.

First Vice-President.

FRANK H. AMES.

*Secretary.**Executive Committee*

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JOHN J. SCHOONHOVEN, B.A.

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WILLIAM T. HORNADAY

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CHARLES A. DAYTON

Miss CLARA C. CALKINS

WILLIAM C. BRAISLIN, M.D.

ROY S. RICHARDSON, B.S.

GEORGE K. CHERRIE

HENRY E. CHAPIN, M.S.

GEORGE P. ENGLEHARDT

Miss ANNA B. GALLUP, B. S.

The Department of Zoölogy was organized on February 12, 1889, with twenty-two members. The present membership is one hundred and sixteen. The regular meetings during the year have been as follows:

I. A Course of Six Illustrated Lectures on "General Physiology," by R. ELLSWORTH CALL, M.D., Ph.D., on Thursday afternoons, at the Art Building, as follows:

Oct. 1—"The Organs of Digestion and their Work."

Oct. 8—"The Blood: Its Chemistry and its Circulation."

Oct. 15—"Secretion and Excretion: Their General Physiology."

Oct. 22—"The Ear and Hearing."

Oct. 29—"The Eye and its Physiology."

Nov. 5—"The Nervous System."

II. A Course of Six Illustrated Lectures on "Practical Lectures on Birds Afield," by Miss ISABEL EATON, A.M., of New York, on Saturday mornings, at the Museum Building, as follows:

Oct. 3—"How to Study Birds in the Field, and with the Aid of Museum, Books, and Records."

Oct. 10—"Some of Our Common Birds, and Some of the Rare Ones."

Oct. 17—"The Winter Birds of New York and How to Know Them."

Oct. 24—"Birds at Home: The Nesting Season."

Oct. 31—"Birds on their Travels: Migration, Change of Plumage and of Song."

Nov. 7—"Birds at Work; Birds as Carpenters, Weavers, Miners and Plasterers; The Economic Value of Birds."

These lectures were illustrated by the collections in Ornithology of the Museum.

III. A Course of Six Illustrated Lectures on "Oceans and Their Life," by ALFRED G. MAYER, S.D., on Saturday mornings, as follows:

Nov. 14—"The Origin and Destiny of Oceans."

Nov. 21—"The Physical Characters of Oceans."

Nov. 28—"Winds and Currents and Their Effects."

Dec. 5—"Oceanic Islands and Their Life."

Dec. 12—"The Floating Life of the Ocean."

Dec. 19—"The Life of the Sea Bottom."

IV. A Course of Six Illustrated Lectures on "Zoölogy," by R. ELLSWORTH CALL, Ph.D., on Thursday afternoons, at the Art Building, as follows:

Mar. 31—"Fishes: Their Structure and Their Ways."

Apr. 7—"Mollusks and their Economics."

Apr. 14—"Animal Parasites and Messmates."

Apr. 21—"Birds: Their Structure and Habits."

Apr. 28—"The Lobster and His Relatives."

May 5—"Some Interesting Animals."

V. A Course of Six Illustrated Lectures on "Human Sense Organs and Their Evolution," by Prof. GEORGE H. PARKER, S.D., of Harvard University, on Monday evenings, as follows:

Apr. 4—"Kinds of Sense Organs: Organs of Taste and of Smell."

Apr. 11—"Organs of Touch and of Pressure: the Ear as an Organ of Equilibrium."

Apr. 18—"The Ear as an Organ of Hearing."

Apr. 25—"The Eye as an Optical Mechanism."

May 2—"The Eye as a Nervous Mechanism."

May 9—"The Vertebrate Eyes in Relation to the Light-perceiving Organs of the Lower Animals."

VI. A Course of Eight Illustrated Lectures on "The Beaches of Long Island and their Life," by ALFRED G. MAYER, S.D., Curator-in-Chief of the Museums of the Institute, on Monday afternoons, as follows:

Apr. 4—"The Origin of the Land and the Sea."

Apr. 11—"Ancient and Modern Beaches and Their Life."

Apr. 18—"The Life Histories of the Sponges and Jelly-fishes."

Apr. 25—"Sun Fish and Corals."

May 2—"Worm Groups, Crustacea, Shrimps and Lobsters of our Beaches."

May 9—"Habits of the Star Fish."

May 16—"Life Histories and Habits of the Mollusks."

May 23—"Development of Highest Animals."

VII. Two Special Illustrated Lectures by Mr. ERNEST T. SETON, in Association Hall, as follows:

Mar. 5—3 P. M., "Animal Friends of the Northwest."
8.15 P. M., "Animal Heroes."

VIII. Also the following single illustrated lectures on Thursday evenings:

Oct. 22—Lecture by Prof. WALTER B. CANNON, M.D., of the Harvard Medical School, on "The Study of the Mechanism of Digestion by Means of the X-Ray."

Feb. 18—Lecture by C. HART MERRIAM, Ph.D., Director of the United States Biological Survey, on "The Mammals of Alaska," illustrated by lantern photographs.

Mar. 10—Lecture by ALFRED G. MAYER, S.D., President of the Department, on "Studies in Natural History in the Tropics."

Apr. 21—Lecture by Prof. CHARLES L. BRISTOL, Ph.D., of the University of New York, on "The Fauna of Coral Reefs."

SECTION ON CONCHOLOGY

R. ELLSWORTH CALL, Ph.D.
FRANK H. AMES

Chairman
Secretary

This Section was organized in the month of November, 1897. Meetings have been held during the past season on the second Monday evening of each month, at which papers were read and conferences held on subjects of general interest to the members.

The dates and subjects were as follows:

Oct. 12—Exhibition of the Summer Collections: Reports and Experiences.

Nov. 9—"Boring Mollusks."

Dec. 14—"A Study of Hinge Teeth in Bivalve Mollusks."

Jan. 11—"Estivation and Hibernation of Mollusks."

Feb. 8—"Limacidæ and other Shell-less Mollusks."

Mar. 14—"Limacidæ and other Shell-less Mollusks."

Apr. 11—"Marine Shells of the British Islands."

May 9—"Marine Shells of Japan."

SECTION ON ORNITHOLOGY

GEORGE K. CHERRIE
EDWARD A. BEHR

Secretary
Librarian

Committee on Papers

Mrs. OLIVE THORNE MILLER

H. L. UTTER

EDWARD A. BEHR

Committee on Local Fauna

WILLIAM C. BRAISLIN, M.D.

WILLIAM F. DOERFLINGER

GEORGE K. CHERRIE

This Section was organized March 20, 1894.

The Collections of the Ornithological Section consist of the following: The HENRY F. ATEN COLLECTION, consisting of 470 mounted birds and 400 bird skins, all well made and in excellent condition; the GEORGE B. BRAINERD COLLECTION, consisting of 285 bird skins, with data; the MILLS COLLECTION, consisting of between 50 and 60 skins of both foreign and native birds; the GREGORY COLLECTION, presented by Mrs. GEORGE F. GREGORY in memory of her son, the late DEXTER GREGORY, comprising about 900 specimens of birds' eggs, correctly labeled and accompanied by very full and accurate notes; the JOHN C. BEALE COLLECTION, comprising about 100 well-mounted specimens of tropical birds, and the collections presented this season. A Loan Collection of 700 bird skins belonging to Mr. A. H. HOWELL, collected chiefly from Long Island, and fairly representative of the land birds of this vicinity, is accessible to visitors for examination and study; and a Loan Collection of fifty-six mounted birds from Mr. JOHN MURGATROYD, of New York, is on exhibition at the Central Museum.

The Collections in Ornithology have received important additions recently, including the large collection of birds' nests and eggs presented by Mr. WILLIAM L. CHAPEL. All gifts to the collections are mounted, labeled, catalogued and arranged for exhibition and study by the Curator, Mr.

GEORGE K. CHERRIE, and his Assistants. An account of the accessions for the year will be found under the report of the Natural Science Departments of the Central Museum.

In December, 1901, the Taxidermic Laboratory was removed from the Bedford Park Building into new and enlarged quarters at 155 Rogers avenue.

The Department of Zoölogy has been one of the active agencies in the organization and maintenance of the Biological Laboratory at Cold Spring Harbor, whose work is described on succeeding pages. With the erection of the Museum Building, this Department, like most of the others, finds its work greatly increased.

SECTION ON PHILATELY

Officers

H. A. TALBOT	<i>President</i>
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DAVID MINALDI	R. R. BOGERT

This Section was organized September 16, 1898, by the Members of the Long Island Philatelic Society of Brooklyn. The business meetings of the Section, lectures, conferences, discussions and exhibitions are held on the fourth Friday evening of each month, from October to May, inclusive.

Philatelic lectures, illustrated with handsomely colored lantern photographs, by means of which each stamp, after being thrown upon the screen, is shown over two feet in height, bringing out clearly every variation in design, per-

foration, grill, secret mark, etc., form an entirely new and interesting feature of the work of the Philatelic Section.

The following lectures, conferences, exhibitions and discussions were held during the past year:

Oct. 23—Lecture by Mr. WILLIAM H. SUSSDORF, of Brooklyn, on "Unused Stamps," illustrated by an exhibit of specimens from Great Britain, Denmark, Iceland, Danish West Indies, and Greece.

Nov. 18—Lecture by Mr. JOHN F. SEYBOLD, of Syracuse, N. Y., on "Original Covers," illustrated by reference to his private collection.

Dec. 11—Exhibit of Unused Stamps of the German States, by Mr. WILLIAM H. SUSSDORF, of Brooklyn, followed by a Conference concerning these stamps.

Apr. 22—Conference and Exhibit by Mr. A. KRASSA, on "Counterfeit Stamps," illustrated by Mr. KRASSA's private collection.

DONATIONS TO THE LIBRARY OF THE SECTION

From Mr. J. M. ANDREINI—Autograph copy of bound volume, "Stamps of Puerto-Principe," an interesting issue of stamps in Cuba.

From Mr. ALVAH DAVISON—Some twenty-five, bound and unbound, volumes of Standard Philatelic Works.

From Mr. PAUL KOHL, Chemnitz, Germany—Copies of all the various Books and Catalogues issued by this leading European publisher and dealer.

From Mr. ALFRED BAILLOD—"Historical Reference List of the Revenue Stamps of the United States."

From Mr. F. L. SMITH—Volume on "Precancelled Stamps."

BY PURCHASE—The Advanced Catalogue for Collectors, by Scott.

From B. L. DREW & Co., Boston—A number of priced Auction Catalogues.

From the J. W. SCOTT Co., Ltd.—Priced Catalogue of Sale, Wm. Alex. Smith, Jr., Collection.

From SCOTT STAMP AND COIN Co.—Priced Auction Catalogues.

The following Philatelic Magazines have been received regularly:

Stanley Gibbons's Monthly Journal, London.

Philatelic Journal of Great Britain.

Mekeel's Weekly Stamp News, Boston.

American Journal of Philately, New York.

Virginia Philatelist, Richmond, Va.

Anales de la Sociedad Filatelica de Chile, Santiago, Chili.

Steps have been taken to have all unbound books and magazines in the library bound, and it is expected that this work will be completed during the present year. The Section needs more reference books on Philatelic subjects. Bound volumes of Philatelic works from friends of the Section would be appreciated.

DONATIONS TO THE COLLECTION DURING THE YEAR

Important contributions to the Collection of the Stamps of the world for the Museum were made during the year by the following governments: United States, Mexico, Trinidad, Bahamas, St. Helena, Austria, The Netherlands, Cape of Good Hope, Danish West Indies, Jamaica, Turks Island, Gambia, Portugal and Colonies (including Angra, Angola, Azores, Congo, St. Thomas, Africa, Madeira, Laurenzo Marques, Cape Verde, Mozambique, Portuguese India, Fuchal, Ponto Delgada, Inhambane, Horta, Timor and Macao), Switzerland, Malta, Tunis, New Zealand, Hong Kong, Egypt, Natal, Cayman Islands, St. Kitts, Australian

Commonwealth, British India, Dominica, Ceylon, St. Vincent, France (including the following dependencies: Levant, Alexandrie, Port Said, Crete, Maroc, Zanzibar, Cavalla, China), Siam, Costa Rica, China, and Gold Coast.

The total number of stamps now in the collection is approximately 10,000.

CASES FOR THE MUSEUM COLLECTION

It is proposed to construct mahogany cases, containing twenty-five drawers 2 feet 4 inches by 2 feet one-half inch in size, holding six sheets each, or 150 sheets in all, on which it is estimated approximately 5,000 stamps can be mounted. The drawers will be covered with glass, which fits closely to the stamps to prevent curling, and so designed as to allow them to be pulled out a certain distance to expose the stamps to view at the same time locked to prevent abstraction. Access can be had to these drawers only by the Curators.

INFORMATION

Any special information concerning the Section on Philately, its work, membership, etc., may be had by addressing the Secretary thereof, Mr. JOHN D. CARBERRY, 999a Lafayette avenue, Brooklyn, N. Y.

TABLE SHOWING THE MEMBERSHIP OF THE DEPARTMENTS.

Departments.	1902-1903.	1903-1904.	Order of size.
ARCHÆOLOGY	156	144	20
ARCHITECTURE	263	243	12
ASTRONOMY	271	265	10
BOTANY	351	335	9
CHEMISTRY	222	207	15
DOMESTIC SCIENCE	200	196	16
ELECTRICITY	260	238	13
ENGINEERING	167	150	18
ENTOMOLOGY	53	52	27
FINE ARTS	1,020	984	3
GEOGRAPHY	383	371	8
GEOLOGY	157	148	19
LAW	253	246	11
MATHEMATICS	126	101	25
MICROSCOPY	124	122	22
MINERALOGY	109	102	24
MUSIC	2,269	2,161	1
PAINTING	248	236	14
PEDAGOGY	917	833	4
PHILOLOGY	1,447	1,371	2
PHILOSOPHY	141	138	21
PHOTOGRAPHY	567	525	6
PHYSICS	159	162	17
POLITICAL SCIENCE	839	783	5
PSYCHOLOGY	413	377	7
ZOÖLOGY	122	116	23
PHILATELY SECTION	58	55	26
	<hr/> 11,295	<hr/> 10,661	

THE BIOLOGICAL LABORATORY

[Located at Cold Spring Harbor, L. I.]

FIFTEENTH SEASON

BOARD OF MANAGERS

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- CHARLES BENEDICT DAVENPORT, Ph.D., Associate Professor of Zoölogy, The University of Chicago, Director of the Station for Experimental Evolution of the Carnegie Institution of Washington, *Director of the Laboratory.*
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- HENRY SHERRING PRATT, Ph.D., Associate Professor of Zoölogy, Haverford College. *In charge of Comparative Anatomy.*
- HENRY EDWARD CRAMPTON, Ph.D., Professor of Zoölogy, Columbia University. *In charge of Embryology.*
- Mrs. GERTRUDE CROTTY DAVENPORT, S.B., Past Instructor in Zoölogy, Kansas State University. *In charge of Microscopic Methods.*

- FORREST SHREVE, A.B., Assistant in Botany, Johns Hopkins University. *In charge of Plant Ecology.*
- WILLIAM MORTON WHEELER, Ph.D., Curator of Invertebrates, American Museum of Natural History. *Lecturer in Entomology.*
- STEPHEN RIGGS WILLIAMS, Ph.D., Professor of Biology, Miami University. *Associate in Zoölogy.*
- WILLIAM J. MOENKHAUS, Ph.D., Professor of Physiology, Indiana University. *Assistant in Zoölogy.*
- DANA BRACKENRIDGE CASTEEL, Ph.D., University of Pennsylvania. *Assisting in Comparative Anatomy.*
- ARTHUR HOUSTON CHIVERS, M.A. (Harvard University), Instructor in Radcliffe, Harvard University. *Assisting in Botany.*
- ALICE A. KNOX, A.B. (Smith), Assistant in Botany, Barnard College, New York. *Assistant in Ecology.*

PERSONS, OTHER THAN INSTRUCTORS, ENGAGED PRIMARILY IN RESEARCH

- ESTHER FUSSELL BYRNES, Ph.D. (Bryn Mawr College), Teacher of Biology, Girl's High School, Brooklyn. *Zoölogy.*
- HENRY EDGERTON CHAPIN, M.S. (Michigan Agricultural and Mechanical College), Teacher, New York City High Schools, Richmond Hill, L. I. *Zoölogy.*
- ABIGAIL CAMP DIMON, A.M. (Bryn Mawr College), Warden of Radnor Hall, Bryn Mawr, Pa. *Zoölogy.*
- LOUIS ISRAEL DUBLIN, B.S. (College of the City of New York), Graduate Student, Columbia University, New York. *Zoölogy.*
- ANNE MAY LUTZ, Station for Experimental Evolution, Carnegie Institution. *Cytology.*
- FRANK EUGENE LUTZ, Station for Experimental Evolution, Carnegie Institution. *Zoölogy.*
- GEORGE HARRISON SHULL, Station for Experimental Evolution, Carnegie Institution. *Botany.*
- MABEL ELIZABETH SMALLWOOD, Teacher of Biology, High School, 430 W. Adams street, Chicago. *Zoölogy.*
- JAMES PALM STOBBER, M.S. (Bucknell University), Professor of Biology and Geology, Albright College, Myerstown, Pa. *Zoölogy 3, Botany 1.*
- ALICE HALL WALTER, 435 Belden avenue, Chicago, Ill. *Bird Study.*
- HERBERT EUGENE WALTER, Teacher of Biology, North Division High School, Chicago. *Zoölogy.*

STUDENTS IN THE SEVERAL COURSES

- CAROLINE ADELE BAER, B.S. (Normal College, City of New York),
Science Teacher, Normal College, New York, N. Y. *Zoölogy 1,*
Botany 2.
- GRACE BAER, Teacher, Elementary School, New York, 102 East 96th
street, New York, N. Y. *Zoölogy 1, Botany 2.*
- FRANK TOUZALIN BARRY, Student, Lake Forest College, Lake Forest,
Ill. *Zoölogy 3, Botany 2.*
- CAROLINE SHALLUS BIRD, A.B. (Woman's College, Baltimore), 2013
East Chase street, Baltimore, Md.
- MARSHALL BAXTER CUMMINGS, M.S. (University of Maine), In-
structor in Botany and Assistant in Horticulture, University of
Maine, Orono, Maine. *Botany 1, Botany 2.*
- FRANCIS E. DANIELS, A.B., A.M. (St. John's College), Teacher, St.
John's College, Annapolis, Md. *Botany 1.*
- WILLIAM WHITE DILLARD, Student of Medicine, University of Vir-
ginia, Charlottesville, Va. *Zoölogy 2.*
- ALLAN FERGUSON, Student, Yale University. *Zoölogy 3.*
- GEORGE CLYDE FISHER, Student, Miami University. *'Zoölogy 3,*
Botany 2.
- BENJAMIN HARRISON GRAVE, B.S. (Earlham College, Richmond,
Indiana), Student, Johns Hopkins University, 1903-4; Teacher,
Carlton College, Northfield, Minn, 1904-5. *Zoölogy 2, Botany 2.*
- ABRAHAM JULIUS GOLDFARB, B.S. (College City of New York),
Teacher, Public Schools, 165 East 125th street, New York, N. Y.
Zoölogy 3.
- ALBERT EDWARD HENNINGS, M.A. (Lake Forest College), Teacher,
High School, Houghton, Michigan. *Zoölogy 2, Botany 2.*
- EDWIN MILLS KENT, Cazenovia Seminary, Cazenovia, N. Y. *Zo-
ölogy 2.*
- SHERMAN NOBLE KILGORE, Student, University of Chicago, 533 En-
glewood avenue, Chicago, Ill. *Zoölogy 2.*
- IVEY FOREMAN LEWIS, A.B., M.S. (University of North Carolina),
Student, Johns Hopkins University, 906 McCulloh street, Balti-
more, Md. *Botany 2.*
- ANNIE AMELIA LYMAN, B.S. (Mt. Holyoke College), Teacher, 154
Hanover street, Fall River, Mass. *Zoölogy 1, Botany 2.*
- FLORENCE MIDDLETON, Teacher, Wadleigh High School, 366 St.
Nicholas avenue, New York. *Botany 1, Botany 2.*
- ROSALIE OGLE, Teacher, Public Schools, 1804 West Fayette street,
Baltimore, Md. *Botany 2.*

- CLARENCE PATTISON, Student, Miami University, Oxford, Ohio. *Zoölogy 2.*
- OSCAR THEODORE SCHULTZ, A.B. (Indiana University); M.D. (Johns Hopkins University), Demonstrator in Pathology, Western Reserve University, Cleveland, Ohio. *Zoölogy 2, Research.*
- ROBERT HARRY SCOTT, Student, Amherst, Mass. *Zoölogy 3, Botany 2.*
- MARY HELEN SMITH, S.B. (Oberlin College), Teacher, Briarcliffe Manse, N. Y. *Zoölogy 1.*
- CHARLES RUPERT STOCKARD, M.A. (Agricultural and Mechanical College, Mississippi), Graduate Student, Columbia University. *Zoölogy 3.*
- MARY ELLEN TAYLER, M.S. (Northwestern University), Science Teacher, High School, 321 So. Chestnut avenue, Green Bay, Wis. *Botany 2.*
- THOMAS WYATT TURNER, A.B., Teacher, Colored High and Training School, Baltimore, Md. *Botany 1, Botany 2.*
- CLIFFORD LeGRAND WAITE, Student, Wesleyan University, Middletown, Conn. *Zoölogy 3.*
- CORNELIA WEBB, Student, Bell Buckle, Tenn. *Botany 2.*
- MARY GILLESPIE WEBB, Student, The Woman's College, Baltimore, Md. *Zoölogy 3.*
- LAURA CORNELIA WELCH, Teacher, 102-58 Avenue E, Duluth, Minn. *Botany 3.*
- HENRY G. WALCOTT, B.S. (Cornell University), Teacher, Manual Training High School, Brooklyn, N. Y. *Botany 1.*

COURSES OF INSTRUCTION

- I ZOÖLOGY 1. "High School Zoölogy," under Dr. C. B. DAVENPORT and Dr. S. R. WILLIAMS, with some assistance from Dr. W. M. WHEELER.
- II ZOÖLOGY 2. "Comparative Anatomy," under Dr. H. S. PRATT and Dr. D. B. CASTEEL.
- III ZOÖLOGY 3. "Embryology," under Dr. H. E. CRAMP-
TON and W. J. MOENKHAUS.
- IV ZOÖLOGY 4. "Animal Bionomics and Variation,"
under Dr. C. B. DAVENPORT.
- V BOTANY 1. "Cryptogamic Botany," under Dr. D. S.
JOHNSON and Mr. A. H. CHIVERS.

- VI BOTANY 2. "Ecology," under Mr. FORREST SHREVE.
 VII BOTANY 3. Seminar in "Ecology," under Mr. FORREST SHREVE.
 VIII "Microscopic Methods," under Mrs. GERTRUDE C. DAVENPORT.

BIOLOGICAL CLUB

This Club is for the presentation of the results of researches and for reviewing of recent biological literature. Recently addresses have been given by the following visiting naturalists:

Prof. M. A. BIGELOW, Teachers College, New York; Prof. C. L. BRISTOL, New York University; Prof. R. E. CALL, Children's Museum, Brooklyn Institute; Prof. H. W. CONN, Wesleyan University; Prof. A. DAVISON, Lafayette College; Prof. BASHFORD DEAN, Columbia University; Prof. R. E. DODGE, Columbia University; Dr. GEORG DUNCKER, Hamburg; JAMES H. EMERTON, Boston; Dr. H. H. FIELD, Concilium Bibliographicum, Zurich; Prof. J. S. KINGSLEY, Tufts College; Prof. F. E. LLOYD, Teachers College; Prof. GRAHAM LUSK, New York University Medical School; Dr. D. T. MACDOUGAL, New York Botanic Garden; Dr. A. G. MAYER, Museum, Brooklyn Institute; Prof. JAMES G. NEEDHAM, Lake Forest University; Prof. G. H. PARKER, Harvard University; Prof. JACOB REIGHARD, University of Michigan; Prof. EDWARD L. THORNDIKE, Columbia University; Dr. W. M. WHEELER, American Museum of Natural History, New York; Mr. GEORGE C. WHIPPLE, Brooklyn, and others.

PUBLICATIONS

The following publications, based in whole or in part on work done or material collected at Cold Spring Harbor, have been published since last year's report:



THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72 x 36 FEET



THE DINING HALL AT THE BIOLOGICAL LABORATORY

31. ESTHER F. BYRNES.—Heterogeny and Variation in some of the Copepoda of Long Island; Biol. Bull., V., 162-168. Aug., 1903.

32. CHARLES B. BENNETT.—Earwigs (*Anisolabia maritima* BON.) Psyche, a Journal of Entomology, XI., 47-53. June, 1904.

EQUIPMENT

The equipment of the Laboratory has been increased by the completed installation of fresh and salt water in the research laboratory given by Mrs. O. L. JONES. Through the establishment of the Station for Experimental Evolution by the Carnegie Institution of Washington on the property adjacent to the Laboratory and under the charge of the Director of the Laboratory, the scientific importance of the community has been augmented. Arrangements have been perfected by which research may be done at the Laboratory at almost any time of the year.

LIBRARY

The Library now receives regularly the publications of several divisions of the Department of Agriculture and the Reports of the New York State Museum. Through an arrangement recently entered into with the Institute Library, the Laboratory becomes a branch station of that Library, and thus acquires a service of great value. Workers at the Laboratory have access also to the library of the Carnegie Institution Station.

The following special gifts have been made to the Laboratory Library during the year:

DEPARTMENT OF COMPARATIVE ANATOMY	Vol- umes	Pamph- lets
OF BROWN UNIVERSITY.....	I	..
ESTHER F. BYRNES.....	..	I
H. S. PRATT.....	..	I
C. B. DAVENPORT.....	..	5

CONTRIBUTIONS FOR ORIGINAL RESEARCH AND EQUIPMENT

Subscriptions for the support of the Laboratory during the season of 1904-1905 were made as follows:

Hon. EUGENE G. BLACKFORD.....	\$200.00
FRANK S. JONES.....	100.00
Col. ROBERT B. WOODWARD.....	25.00
Hon. GEORGE V. BROWER.....	50.00
HENRY F. NOYES.....	100.00
A. AUGUSTUS HEALY.....	25.00
WALTER B. JENNINGS.....	100.00
WILLIAM J. MATHESON.....	100.00
Hon. LOWELL M. PALMER.....	100.00
Dr. WALTER B. JAMES.....	100.00
AUGUST HECKSCHER.	50.00
EDWARD THOMPSON.	50.00
ROBERT W. DE FOREST.....	50.00
WAWEPEX SOCIETY.	30.00
Mrs. CHARLES B. DAVENPORT.....	130.00

THE MUSEUM.

GIFTS AND ACCESSIONS

A large number of gifts have been received from friends of the Museum, and a detailed list of these is given below. The Department of Fine Arts, from its attractive nature, stands far ahead of the other departments of the Museum in the character and value of its accessions, but most important zoölogical specimens have been received from the New York Zoölogical Society, the American Museum of Natural History, Mr. ROBERT PEAVEY and Mr. LOUIS RUHE. In addition to the gifts a large collection of pottery, both ancient and modern, and other objects illustrating the life of the Indians of the Southwest, was made by Mr. STEWART CULIN in Arizona and New Mexico.

At the present date, July 1, two parties from the Museum are engaged in field work, Mr. CULIN, accompanied by Mr. JUDY, being on a collecting trip in Arizona and New Mexico, while Messrs. DOLL and ENGLEHARDT are in Utah. It is confidently expected that notable accessions of ethnological and entomological material will result from these expeditions.

DEPARTMENT OF FINE ARTS.

BAKER, Mrs. CHAS. R.

Marble group of "Christ and St. John," by Wm. Ordway Partridge.

BARR, THOMAS T.

Marble Bust of Judith, by Russi, and marble pedestal.

BENSON, FRANK SHERMAN.

One hundred and five silver, copper and bronze Roman coins.

One plaster model of Dolmen at Crucuno, Brittany.

One plaster model of third Dolmen of Kerioned, Brittany.

One plaster model of Menhir at Kerdef, Brittany.

BRACKETT, GEORGE C.

Two Japanese houses. Bamboo models.

One Japanese Temple Gate. Bamboo model.

Six Japanese flower vases; cloisonne under transparent enamel.

Four Japanese bronze vases; inlaid bronze with other metals.

Two small Russian crucifixes worn as amulets (ancient), one silver, one brass.

Three ladies' gowns.

DE SILVER, CARLL H.

Eight pieces of Japanese stone ware.

Three Japanese vases.

Two solid colored pieces of Japanese porcelain.

Six Japanese bronze knife-handles inlaid with gilt metal.

HEARN, Mr. GEORGE A.

One oil painting, "Late Afternoon," by G. H. Bogert.

HATHAWAY, Mrs. CHAS., East Orange, N. J.

Fragment of mosaic pavement from the ancient Roman city of "Italica," near Seville, in Spain.

HUNTINGTON, Mrs. S. E.

One marble statue, "Sleeping Peri," by E. D. Palmer.

LOUGHRAN, Miss.

One engraving, "The Deluge," by Jezet, after a painting by John Martin.

One engraving, "The U. S. Senate."

MOORE, RUFUS E.

One Chinese Butterfly buckle. Said to be from the Chinese Imperial Palace. Gold mounting, inlaid with feathers of the Kingfisher. Studded with uncut rubies and sapphires in the rough, and jade in gold mounting. Contained a gold lacquered tray.

PACKARD, Miss LOUISE, and Mrs. EDWARD COE.

Marble Relief. Head of Prophet Zephaniah, by Miss Foley of Rome.

PELL, ALFRED DUANE.

One hundred and thirteen pieces of china.

One bust of President Grevy.

Sixty-three pieces of china.

One hundred and thirty-seven pieces of china.

Five pieces of china.

PIERCE, Mrs. CHAS. W.

One Calash brought by Mr. Brackett, originally belonged to Mr. Low.

SKINNER, CHAS. S.

One Roman glass bottle.

WILLIAMS, Mrs. J. H., and Miss SADIE.

Twelve pieces, goblets, cups and vases, galvano-plastic replicas of Mycenaean finds.

WOODWARD, Col. ROBERT B.

One black lacquer box.

One black lacquer tray.

One incense box.

One inro and netsuke.

Ten Greek and Greco-Italic vases.

Two Greek vases.

Eleven pieces of ancient glass.

Three pieces of ancient glass.

Eighteen pieces of modern lace.

WOODWARD MEMORIAL FUND.

One East Indian dagger, or crease, jade handle, incrustated with gems set in gold.

One piece of Limoges enamel.

One marble statue, "Poetry," by Salvatore Albano.

WOODWARD MEMORIAL FUND—*Continued.*

Three oil paintings:

"Connecticut Pines," by Chas. Warren Eaton.

"The Devil's glen," by Joseph H. Boston.

"Intervale," by George A. Traver.

By gift from ALFRED T. WHITE,

ROBERT B. WOODWARD,

CHAS. A. SCHIEREN,

HENRY BATTERMAN,

H. H. BENEDICT,

W. H. NICHOLS,

CARLL H. DESILVER,

L. W. LAWRENCE,

GEORGE A. HEARN,

{ THOMAS E. KIRBY,

{ T. J. BLAKESLEE.

"The Vision of the Dying Virgin," by Cornelis Schut.

DEPARTMENT OF ETHNOLOGY.

MORRILL, J.

One antique tin lantern from Vermont.

COURANT, Mrs. M.

One ancient wood Japanese saddle and stirrups.

One spinning wheel.

MACVEY, Mr. ARTHUR W.

One harpoon with float, articles of Eskimo dress, and

One piece of Labradorite.

BATTERMAN, Mr. HENRY.

One steel diamond drill, used for boring the first hole
for the Williamsburg Bridge, 1896.

DEPARTMENT OF NATURAL SCIENCE.

AMERICAN MUSEUM OF NATURAL HISTORY.

Three mammals and
One bird.

BALCH, FRANCIS N., Jamaica Plain, Mass.

Fifty-four marine animals in alcohol.

BENDER, JOHN.

One bird.

BOULANGER, EM., Paris.

One Mycelium, together with a pamphlet on the same.

BRACKETT, GEORGE C.

One specimen illustrating the bark, wood, leaves and
acorn of the Cork Oak from Portugal.

BRAISLIN, Dr. WM. C.

Three birds.

CHERRIE, GEORGE K.

One barn owl.

Five birds.

COMPTON, Miss CELIA M.

One hundred and thirty mounted plants from Grand
Rapids, Mich., and other places.

CRITCHLEY, J. W.

One mink.

One cockatoo.

One goshawk.

Three quail.

ERICSON, LAWRENCE E.

One musk rat.

Two fishes.

ERIKSEN, AUGUST.

One serpent.

GRASER, JOHN.

One cockateel.

HOOKE, DAVENPORT.

Three squids.

JOHNSON, J. E.

Four minerals.

LUCAS, F. A.

Two skins of Ptarmigan.

MAYER, A. G.

Twelve marine animals.

MURGATROYD, J.

Two birds.

NEW YORK AQUARIUM.

One drum fish.

Three fish.

Two turtles.

NEW YORK ZOÖLOGICAL SOCIETY.

Twenty-six mammals.

Six birds.

One anaconda.

PALMER, LOWELL M.

One large fungus from the Adirondacks.

PEAVEY, ROBERT W.

One turkey vulture.

Thirty-two other birds.

PEAVEY, ROBT. W., representing Rockaway Rod and Gun Club.

Three terns.

Seven other birds.

PIERCE, Mrs. CHARLES W.

12 folios of plants from Cape of Good Hope.

PROSPECT PARK ZOÖLOGICAL GARDEN.

Seven mammals.

Five birds and

One alligator.

RIKER, C. B., 48 Vesey Street, N. Y.

Seven specimens of Lepidoptera.

RUHE, LOUIS.

Six mammals.

Forty birds and

Two serpents.

SANFORD, Dr. L. C.

Two birds.

One golden-eye duck in flesh.

SCHERNIKOW, E.

One crystal of feldspar.

SCHWARZ, E. A.

One thousand three hundred and fifty beetles.

SIEFERT, Dr. O.

Eight moths.

STEPHENS, BENJ. F., Jr.

One English rabbit.

TUNISON, Miss E.

One stalactite.

One Coral.

WINTERSON, WARREN.

One owl.

WRIGHT, JEROME.

One embryo sheep.

GIFTS TO THE CHILDREN'S MUSEUM.

BARKER, E. EUGENE.

One wood turtle.

BEERS, Mrs. EDWIN.

One clock from Black Forest.

BIRS, LEWIS.

One specimen of thrush.

BLACKFORD, Hon. EUGENE G.

Four specimens of fish.

BRUCKBRIDGE, Master THOMAS A.

One alligator, living.

COOK, Miss RUTH A.

Fifty-three lantern slides.

DUNLAP, I. C.

Collection of shells.

GUEST, G. M.

Two lizards, living.

HOWLAND, R. H.

One dried star fish.

One butterfly.

McKAY, FRANK C.

One specimen flounder.

OSTERSTOCK, C. E.

Twenty-four assorted birds' eggs.

Twenty-one birds.

PIERSON, Master HERBERT.

One alligator.

SPENCER, HERBERT.

One coquina rock.

SPECIAL ENDOWMENT FUNDS OF THE INSTITUTE.

THE AUGUSTUS GRAHAM FUNDS.

(1) "I give and bequeath unto the Brooklyn Institute the sum of Five Thousand Dollars, to be invested in the interest of the same, to be applied to the purchase of apparatus, and to the establishment and support of a course of free lectures annually, upon mechanics, natural philosophy and science, for the youth of the City of Brooklyn.

(2) "Also the further sum of Five Thousand Dollars, to be invested as aforesaid, the income to be applied to the purchase of specimens of natural history, and in causing free lectures to be delivered upon the subject of Natural History, from time to time, and the benefit of the Natural History Department of the Brooklyn Institute; and any surplus of said income to be applied to the general objects of said Institute.

(3) "Also the sum of Five Thousand Dollars, to be invested as aforesaid, and to apply the income thereof as follows: One-half toward the support of the School of Design, and the other half annually to a specimen of the Fine Arts, to be executed by a native artist, and kept in said Institute for the purpose of forming a gallery of Fine Arts.

(4) "Also the sum of Twelve Thousand Dollars, to be invested as aforesaid, the income to be applied to the delivery of Sunday Evening Lectures at such time as may be deemed advisable by the Directors or Trustees on The Power, Wisdom and Goodness of God, as Manifested in His Works."

THE JOHN B. WOODWARD MEMORIAL FUND.

"I hereby give and grant unto the Brooklyn Institute of Arts and Sciences the sum of Twenty-five Thousand Dol-

lars in memory of my brother, JOHN B. WOODWARD, to be by it held as a separate fund, apart from all other funds of the Institute, to be securely invested and reinvested by its officers under the advice and direction of its Board of Trustees, the entire income of which is to be devoted to the encouragement of American Art, by the purchase, from time to time, of oil paintings of artists practicing their profession in the United States of America, preference being given to paintings exhibited in some regular exhibition of the work of artists, such as the National Academy of Design, the Society of American Artists, the Academy of Fine Arts in Philadelphia, or other similar exhibitions throughout the country; the selection and purchases to be made by the President and the Art Committee of the Institute with the approval of the Board of Trustees, or of its Executive Committee."—Extract from Deed of Gift by Col. ROBERT B. WOODWARD.

THE ELLA C. WOODWARD MEMORIAL FUND.

"And I hereby give and grant unto the Brooklyn Institute of Arts and Sciences the further like sum of Twenty-five Thousand Dollars, in memory of my wife, ELLA C. WOODWARD, to be by it held and invested in like manner, and the entire income devoted to the purchase from time to time of objects of art, vertu or antiquity, the selection and purchases to be made by the President and the Art Committee of the Institute, with the approval of the Board of Trustees or of its Executive Committee."—Extract from Deed of Gift by Col. ROBERT B. WOODWARD.

NOTE.—The two funds created by Col. WOODWARD are together known as the WOODWARD MEMORIAL FUNDS.

THE FREDERICK LOESER FUND.

Mr. FREDERICK LOESER, of Stuttgart, Germany, donated in 1902 the sum of \$10,000 as a Trust Fund, to the Brooklyn

Institute of Arts and Sciences, the interest to be used for the purchase of photographs and casts of famous works of Art (Paintings, Sculptures and Architecture), from originals in various Museums, private collections in cities of Europe and America. In case at some future time the Museum should be adequately supplied with these, said interest may be used in the purchase of original works of Art, such as paintings, porcelains, bibelots, antiques, etc.

THE HENRY K. SHELDON FUND.

From the estate of the late HENRY K. SHELDON the Institute received \$9,500 in 1903, the interest of which must be used in the support and maintenance of Orchestral Concerts and Chamber Music Concerts.

CONDENSED SUMMARY FROM THE REPORT OF THE TREASURER

FOR THE YEAR ENDING MAY 1, 1904. *

May 1, 1903—Cash on hand—in banks..... \$6,352 00

RECEIPTS.

May 1, 1903, to May 1, 1904.

For Institute Associate Funds Account—

Including amounts received for Annual
Dues from Associate Members, from
Pedagogical and other classes, special
illustrated and other Lectures, Dra-
matic Readings, Philharmonic, Ora-
torio and other Concerts, etc..... \$70,030 76

" Abraham Abraham's Fine Arts Fund—
To promote special Fine Arts Lectures 500 00

" Biological Laboratory at
Cold Spring Harbor, L. I.—
Special contributions, tuition, etc..... 1,780 44

" General Funds Account—
Including income from investments of
Endowment Funds, initiation fees of
new members, etc..... 11,279 34

" Investment Funds Account—
Including mainly payments on account
of mortgages due and passed through
this account for reinvestment..... 13,200 00

" Endowment Fund Account—
Bequests received during the year:
Estate of Henry K. Sheldon, dec'd.

The income to be
used for the pro-
motion of Philhar-
monic and Chamber
Music Concerts....\$10,000 00
Less Transfer
Tax. 500 00
————— \$9,500 00

Est. of Henry K.
Sheldon, dec'd—
To be applied to the
general uses of the
Institute. \$2,500 00
Less Transfer
Tax. 125 00
————— \$2,375 00

Est. of Augusta
M. Osborne—
To be applied to the
general uses of the
Institute. \$2,000 00
Less Transfer
Tax.. 95 00
————— 1,905 00

Carried Forward, 13,780 00
\$110,570.54 \$6,352.00

<i>Amount Brought Forward,</i>	\$110,570.54	\$6,352.00
For Museum Maintenance—		
For maintenance of Museum and for preparation of donated specimens and collections for exhibition, etc.....	71,121 58	
“ Healy-Peabody Collection Fund—		
Special contribution for the purchase of a large collection of specimens of implements, etc., etc., of the Cliff Dwellers of Arizona and Mexico.....	4,000 00	
“ Goodyear Architectural Research Fund—		
Special contributions.	1,011 48	
“ Ethnological Collections—		
Special contributions during the year for purchases of specimens in Arizona and New Mexico.....	800 00	
“ Zuni Collection Fund—		
Special contributions to complete the sum of \$1,000.00 for the purchase of a collection of Ethnological specimens from the district inhabited by Zuni Indians.	350 00	
“ George A. Hearn Art Fund—		
For photographs of architectural details, etc.	750 00	
“ Museum Collections Fund—		
Special contributions during the year, part of \$10,000.00 fund to be raised for the purchase of valued collections for the Museum.....	1,250 00	
“ Special Funds—		
Woodward Memorial Funds—		
Principal amount \$50,000.		
Income to be used for purchase of works of art, etc., for the Museum.	\$2,273 27	
Frederick Loeser Art Fund—		
Principal amount \$10,000.		
Income to be used for purchase of works of art, etc., for the Museum.		
Income received during the year.	427 25	
	<hr/>	2,700 52
Total receipts for the fiscal year.....		\$192,554 12
Grand Total.		<hr/> \$198,906 12

DISBURSEMENTS.

May 1, 1903, to May 1, 1904.

For Associate Funds Account—

Covering payments of Lecturers, Dramatic Readings, talent for Song Recitals, Chamber Music, Boston Symphony Orchestra and Other Concerts, Instructors of Pedagogical and other class salaries, sundry rents for special reserved seat events, printing, etc....	\$68,228 33
" Abraham Abraham's Fine Arts Fund— Being the aggregate honorariums paid to certain lecturers upon Fine Art subjects.	500 00
" Biological Laboratory at Cold Spring Harbor, L. I.— Including salaries of the corps of Instructors for the season 1903, for general supplies, care of Dormitories, etc.	1,986 03
" General Funds Accounts— Including payments for rents of lecture halls, for members' weekly ticket events, general offices of management, rooms for pedagogical classes, Department of Photography, etc., management salaries, etc.	11,297 01
" Graham Library Fund— Purchase of books for the library of Children's Museum, Bedford Park....	874 84
" Graham Sunday Evening Lecture Fund— Annual course of lectures on the Wisdom, Power and Goodness of God as manifested in His works.....	496 09
" Investments Funds Account— Being amount of sundry investments first mortgage on New York City real estate.	27,700 00
" Museum maintenance— Including salaries of Curators and their assistants, Taxidermists, Librarians, Stenographers, Attendants, Engineers and Mechanics, for coal and sundry supplies, for freight, labor and other expenses in installing contributed collections, etc., during the fiscal year....	71,121 58
" Healy-Peabody Collection Fund— Being the purchase from Charles L. Day of New Mexico, a large collection of specimens of the implements of the ancient Cliff Dwellers.....	4,000 00
<i>Carried Forward,</i>	<i>\$186,203.88</i>

<i>Amount Brought Forward,</i>	\$186,203.88
For The Goodyear Architectural Research Fund—	
Being part of the expenses of Prof. William H. Goodyear, in prosecuting researches in architecture in France, Southern Europe, Constantinople, etc.	1,011 48
" Ethnological Collection Fund—	
Being payments made by Mr. Stewart Culin, in purchasing specimens while sojourning in Arizona, New Mexico and Mexico during the fiscal year....	1,301 10
" Zuni Collection Fund—	
Purchase of a collection of Ethnological specimens from the district inhabited by Zuni Indians.....	1,000 00
" George A. Hearn Art Fund—	
Being payments for photographs of Syrian architectural details, etc., and prints of "Lady Washington's Reception" and of "George Washington and his Generals".	162 40
" Woodward Memorial Funds—	
John B. Woodward Memorial Fund. Purchase of paintings (the work of native artists).	1,887 08
Ella C. Woodward Memorial Fund. Purchase of articles of vertu and antiquity.	
Total Disbursements for the fiscal year.....	\$191,565 94
Cash on hand May 1, 1904.....	7,340 18
Grand Total	\$198,906 12
Endowment and other permanent Funds, May 1, 1904.	
Including various general and special bequests:	
Total principal May 1, 1904.....	\$335,046 46
Income for the uses of The Brooklyn Institute in its general and special work.	
Investments:	
First mortgage on real estate in New York City	\$260,486 50
Other investments, including loan of \$10,000 to the Museum Fund Account..	67,219 78
Cash in Banks.....	7,340 18
	\$335,046 46

Special Funds for promoting the work of the Museums are included in the foregoing statement, viz.:

FROM COL. ROBERT B. WOODWARD.

Ella C. Woodward Memorial Fund.....	\$25,000 00
Income to be used for the purchase of objects of art, vertu and antiquity.	
John B. Woodward Memorial Fund.....	25,000 00
Income to be used for the encouragement of American art by the purchase, from time to time, of oil paintings of artists practising their profession in the United States, preference being given to paintings exhibited in some regular exhibition of the work of artists.	

FROM MR. FREDERICK LOESER.

Frederick Loeser Art Fund.....	10,000 00
Income to be used for the purchase of photographs and casts of famous works of art (painting, sculptures and architecture) from originals in various museums or private collections in cities of Europe and America.	

SPECIAL CONTRIBUTIONS MADE FOR SPECIFIC PURPOSES.

DURING THE FISCAL YEAR, MAY 1, 1903-04.

HEALY AND PEABODY COLLECTION FUND:

A. Augustus Healy.....	\$2,000 00
George Foster Peabody.....	2,000 00
	<hr/>
	\$4,000 00

BIOLOGICAL LABORATORY:

Edward Thompson	\$25 00
John D. Jones.....	25 00
E. G. Blackford.....	100 00
H. F. Noyes.....	100 00
L. C. Tiffany.....	100 00
C. W. Wetmore.....	50 00
R. W. De Forest.....	25 00
D. A. Boody.....	100 00
R. B. Woodward.....	25 00
Walter Jennings	100 00
Dr. O. L. Jones.....	50 00
Frank S. Jones.....	100 00
George V. Brower.....	50 00
Lowell M. Palmer.....	100 00
A. Heckscher	50 00
	<hr/>
	1,000 00

GOODYEAR RESEARCH FUND:

Mrs. August Lewis.....	\$500 00
Frank Squier	20 00
L. W. Lawrence.....	100 00
James R. Howe.....	25 00
William B. Davenport.....	150 00
Alfred T. White.....	50 00
R. R. Bowker.....	50 00
	<hr/>
	895 00
Carried Forward,	<hr/>
	\$5,895.00

Amount Brought Forward, \$5,895.00

ETHNOLOGICAL COLLECTION FUND:

Robert J. Kimball.....	100 00	
William Dick	100 00	
E. Le Grand Beers.....	100 00	
A. Augustus Healy.....	100 00	
Robert B. Woodward.....	100 00	
J. A. Mollenhauer.....	100 00	
E. G. Blackford.....	100 00	
Martin Joost	100 00	
	<hr/>	800 00

ZUNI COLLECTION FUND:

Frank Healy	\$25 00	
H. H. Benedict.....	100 00	
Alfred T. White.....	100 00	
Chas. J. Peabody.....	100 00	
Frank Squier	25 00	
	<hr/>	350 00

HEARN ART FUND:

George A. Hearn.....	\$250 00	
do. do.	500 00	
	<hr/>	750 00

ABRAHAM'S FINE ART FUND:

Abraham Abraham	\$500 00	
	<hr/>	500 00

MUSEUM COLLECTIONS FUND:

L. W. Lawrence.....	\$500 00	
Henry Batterman.....	250 00	
H. J. Morse.....	200 00	
Chas. A. Schieren.....	100 00	
Robert B. Woodward.....	100 00	
James R. Howe.....	100 00	
	<hr/>	1,250 00

PAINTING BY CORNELIS SCHUT:

"Vision of the Dying Virgin."

Robert B. Woodward.....	\$360 00	
Henry Batterman.....	360 00	
Alfred T. White.....	360 00	
Chas. A. Schieren.....	360 00	
L. W. Lawrence.....	360 00	
W. H. Nichols.....	360 00	
Carl H. De Silver.....	360 00	
George A. Hearn.....	360 00	
H. H. Benedict.....	360 00	
Thos. E. Kirby.....	180 00	
T. J. Blakesly.....	180 00	
	<hr/>	3,600 00

\$13,145 00





BROOKLYN BUSINESS DIRECTORY

THE PEOPLES TRUST COMPANY 172 MONTAGUE STREET

BEDFORD BRANCH

COR. BEDFORD AVENUE AND HALSEY STREET

CAPITAL AND SURPLUS, \$2,600,000

INTEREST ALLOWED ON DAILY BALANCES

This Company acts as Executor, Administrator, Guardian, Trustee, Receiver, Transfer Agent, and Registrar of Stocks and Bonds, and transacts any and all business usually done by other Trust Companies of standing and repute.

Procures Letters of Credit for travelers payable in all parts of the world. Is represented in the New York Clearing House.

OFFICERS

EDWARD JOHNSON, President.
JACOB G. DETTMER, 1st Vice-Pres. HORACE J. MORSE, 2d Vice-Pres.
CHARLES A. BOODY, Secretary CHARLES L. SCHENCK, Ass't Sec.
HENRY M. HEATH, Ass't Sec.

TRUSTEES

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Isidore M. Bon	Wm. H. Good	Horace J. Morse
David A. Boody	William B. Hill	Herbert L. Pratt
Amory S. Carhart	Edward Johnson	Clarence W. Seamans
Wm. M. Cole	Solomon W. Johnson	Howard M. Smith
Wm. C. Courtney	James Jourdan	Casimir Tag
Wm. B. Davenport	Adrian T. Kiernan	George B. Tangeman
Jacob G. Dettmer	W. Eugene Kimball	

Title Guarantee and Trust Company

Capital and Surplus, - - \$9,000,000

Manhattan, - 146 Broadway Brooklyn, - 175 Remsen St.
MANUFACTURERS BRANCH, 198 MONTAGUE ST., BROOKLYN

This Company receives deposits either subject to check or upon certificate of deposit, allowing current rates of interest thereon. The very large capital and surplus of the Company, together with the double liability upon its stock, makes it an exceedingly safe depository. Accounts of corporations, individuals and trustees solicited.

It loans money on bond and mortgage at lowest current rates of interest. Purchasers desiring a loan to complete their purchase can always obtain one from the Company and save a double examination of title. It also loans money on collateral security.

OFFICERS

CLARENCE H. KELSEY, President
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WM. J. COOMBS, Chairman of Advisory Committee, Manufacturers' Branch
FRANK L. SNIFFEN, Manager Manufacturers' Branch
C. E. NORREGAARD, Assistant Manager Manufacturers' Branch
JOHN W. SHEPARD, Assistant Treasurer
NELSON B. SIMON, HORACE ANDERSON, DAVID BLANK, Ass't Secretaries

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Edward T. Bedford	Martin Joost	Alexander E. Orr
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Julien T. Davies	John S. Kennedy	Frederick Potter
Charles M. Dow	Woodbury Langdon	Charles Richardson
William J. Easton	James D. Lynch	Elihu Root
Charles R. Henderson	William J. Matheson	Sanford H. Steele
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John D. Hicks	William H. Nichols	Louis Windmuller

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E. T. Bedford	Silas Tuttle	Daniel P. Morse
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Sanford H. Steele	C. O. Gatea	Irving T. Bush
	Hiram V. V. Braman	

BROOKLYN BUSINESS DIRECTORY

Long Island Loan and Trust Co.

"TEMPLE BAR,"

BROOKLYN - - - - NEW YORK

CAPITAL, - - - - \$1,000,000
Surplus and Profits, Over 1,500,000

DEPARTMENTS: } **Banking. Trust. Safe Deposit.**
Letters of Credit. Foreign Exchange.

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CLINTON L. ROSSITER, First Vice-President
DAVID G. LEGGET, Second Vice-President
FREDERICK T. ALDRIDGE, Secretary
WILLARD P. SCHENCK, Assistant Secretary

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Edward D. White	Frank L. Babbott	Clinton L. Rossiter
Edward Merritt	Theodore F. Jackson	Martin Joost
Frank Lyman	John F. Halsted	John Englis
David G. Legget	David H. Valentine	William V. Hester
Seymour L. Husted, Jr.	Clinton D. Burdick	Frederick T. Aldridge
Walter St. John Benedict		William H. Childs

KINGS COUNTY TRUST CO.

342, 344 and 346 Fulton Street, Brooklyn, N. Y.

CAPITAL, \$500,000.00 SURPLUS, \$1,000,000.00
UNDIVIDED PROFITS, \$342,396.00

OFFICERS

JULIAN D. FAIRCHILD,	President
WILLIAM HARKNESS,	Vice-Presidents
D. W. McWILLIAMS,	Secretary
HERMON MORRIS,	Assistant Secretary
THOMAS BLAKE,	

KINGS COUNTY TRUST COMPANY

Acts as Executor, Administrator, Trustee, Guardian, Receiver, Committee of the Insane, Transfer Agent, and Registrar for Corporations.
 Designated by the general terms of the Supreme and City Courts as a Legal Depository for Estate Funds.
 Receives Deposits subject to Check at sight, and allows interest on Daily Balances. Checks pass through the New York Clearing House.
 Issues Interest-Bearing Certificates of Deposit.
 Collects Rents, Coupons and Interest, and Manages Property of Non-Residents.
 Secures Letters of Credit and Drafts payable in any Part of the World.
 Keeps Wills Free of Charge.

BROOKLYN BUSINESS DIRECTORY

THE NASSAU TRUST COMPANY

BROADWAY AND BEDFORD AVE.,
356-358 FULTON STREET

CAPITAL AND UNDIVIDED PROFITS. - \$1,000,000.00

**INTEREST PAID ON DAILY BALANCES, AND SPECIAL
RATES ON TIME DEPOSITS**

ANDREW T. SULLIVAN, - - - - - *President*
WILLIAM DICK, }
JOHN TRUSLOW, } *Vice-Presidents*
HARRY F. BURNS, - - - - - *Secretary*
C. WOODWORTH, }
FRANCIS WEEKES, } *Asst. Secretaries*

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Jost Moller	Edward T. Hulst	John Truslow
William Dick	Henry Sanger Snow	Henry Seibert
James H. Post	John V. Jewell	E. B. Tuttle
F. D. Mollenhauer	James A. Sperry	F. W. Wurster
Henry Roth	Rob't P. Lethbride	Edward T. Horwill
John H. McCooley	Andrew T. Sullivan	N. F. Brady

HAMILTON TRUST COMPANY

No. 191 MONTAGUE STREET

Capital, \$500,000.00
Surplus and undivided Profits, over \$1,000,000.00

Deposits Received subject to Check payable through New York Clearing House.

Interest on Accounts subject to Check. Special Rates on Time Deposits.

A GENERAL TRUST CO. BUSINESS TRANSACTED.

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WILLIAM BERRI	<i>Vice-President</i>
W. C. HUMSTONE	<i>2d Vice-President</i>
GEORGE HADDEN, 3d	<i>Vice President and Secretary</i>
ROBT S. GIRLING	<i>Assistant Secretary</i>

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Lucius H. Biglow	W. E. Edwister	Thos. E. Pearsall
Kyra D. Bushnell	George Hadden	Fred. H. Pouch
David F. Butcher	John R. Hegeman	F. Sullivan Smith
Eversley Childs	Hy. E. Hutchinson	Millard F. Smith
Charles Cooper	W. C. Humstone	Wm. V. R. Smith
Silas B. Dutcher	John C. McGuire	T. L. Woodruff
John Ditmas, Jr.	Eugene F. O'Connor	Henry N. Whitney

BROOKLYN BUSINESS DIRECTORY

MECHANICS BANK

ESTABLISHED 1852

Court Street, Corner of Montague

Opposite City Hall, BROOKLYN

CAPITAL AND SURPLUS, OVER - - \$900,000

OFFICERS

GEORGE W. CHAUNCEY, President HORACE C. DUVAL, } Vice-Presidents
CHARLES E. WHEELER, Cashier J. T. E. LITCHFIELD, }
CHARLES G. BALMANNO, Asst. Cashier

FIFTH AVENUE BRANCH

FIFTH AVENUE AND NINTH STREET

ISAAC SIMONSON, - - - Cashier

SCHERMERHORN BRANCH

SCHERMERHORN STREET, NEAR FLATBUSH AVENUE

ARTHUR P. SMITH - - - Cashier

TWENTY-SIXTH WARD BRANCH

ATLANTIC AND GEORGIA AVENUES

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Daniel W. McWilliams	J. T. E. Litchfield	Charles E. Wheeler
James Jourdan	Timothy S. Williams	George W. Chauncey
William Baylis	Daniel D. Whitney	Joseph E. Owens
Daniel Chauncey	James Raymond	Frank A. Selle

The Nassau National Bank

OF BROOKLYN

Organized, January, 1859

GARFIELD BUILDING

Capital, \$300,000 Surplus, \$700,000

Designated Depository of the United States

ACCOUNTS SOLICITED

Every facility furnished Depositors which their balances and condition justify

THOMAS T. BARR, Pres. WILLIAM A. NASH, Vice-Pres.
EDGAR McDONALD, Cashier JOHN W. SEAMAN, Ass't Cash'r
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DIRECTORS

Alex. M. White	Frank Bailey	Frank Lyman
Wm. M. Ingraham	Crowell Hadden	James H. Taylor
Rob't B. Woodward	Thomas T. Barr	Alex. M. White, Jr.
Wm. A. Nash	Carl H. De Silver	

Manufacturers', Merchants' and Personal Accounts are Solicited

BROOKLYN BUSINESS DIRECTORY

FRANKLIN TRUST COMPANY

OFFICES / 164-166 Montague St., Borough of Brooklyn / New York City
140 Broadway, Borough of Manhattan

GEORGE H.

WM. H. WALLACE, Vice-President
GATES D. FAHNESTOCK, 2d Vice-President
CROWELL HADDEN, Jr., Secretary

CAPITAL.

Surplus and Undivided

Authorized by law to act as
TRUSTEE, GUARDIAN or COMMITTEE
IS A LEGAL DEPOSITARY
INTEREST ON DEPOSITS.

Offers its services on favorable
TERMS FOR MORTGAGES, REGISTERS
CORPORATIONS OR MUNICIPAL
APPROVED SECURITIES.

Deposits received, Checks cashed
at either office.

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Edwin Packard
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Albro J. Newton
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H. E. ...
Geo. ...
Geo. ...
Thos. ...
Robert ...
Stewart ...

Interest allowed on Deposits

Franklin Safe

Franklin Trust
164-166 Montague St.
Brooklyn

GEORGE H.

DARWIN R. JAMES, Vice-President

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